BULLETIN 1172B

28 and 29 NONTYPING REPERFORATOR SET (LRPE) PARTS



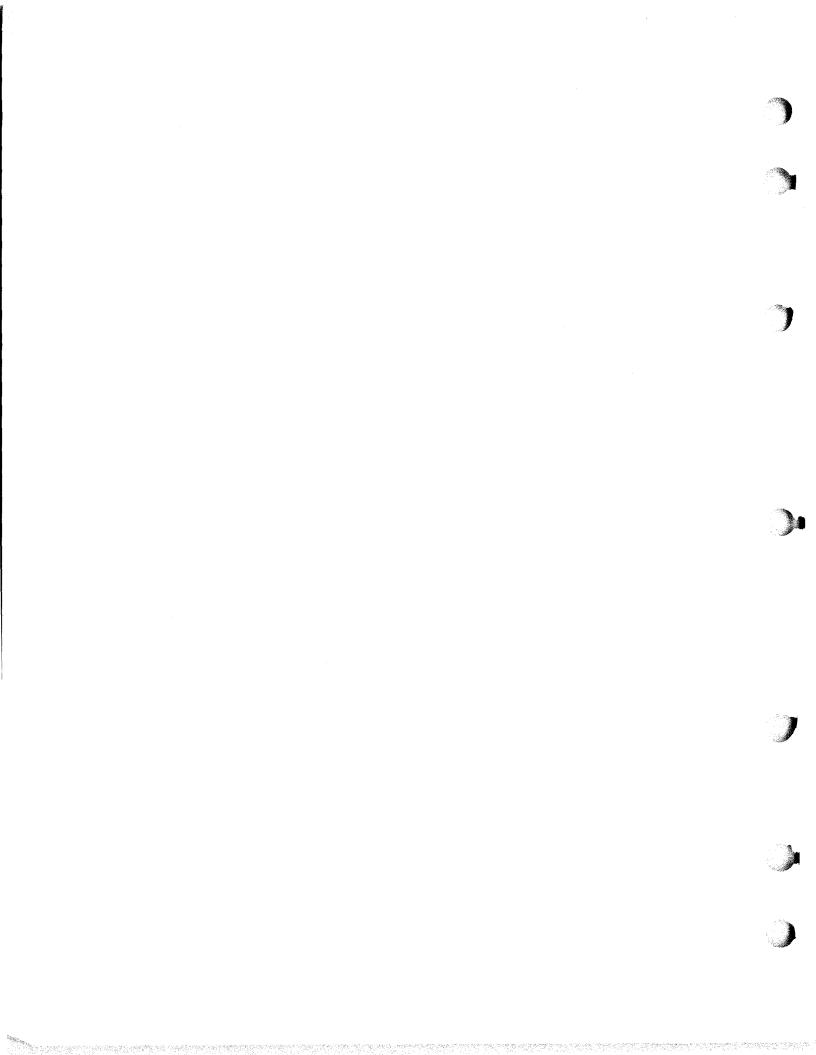
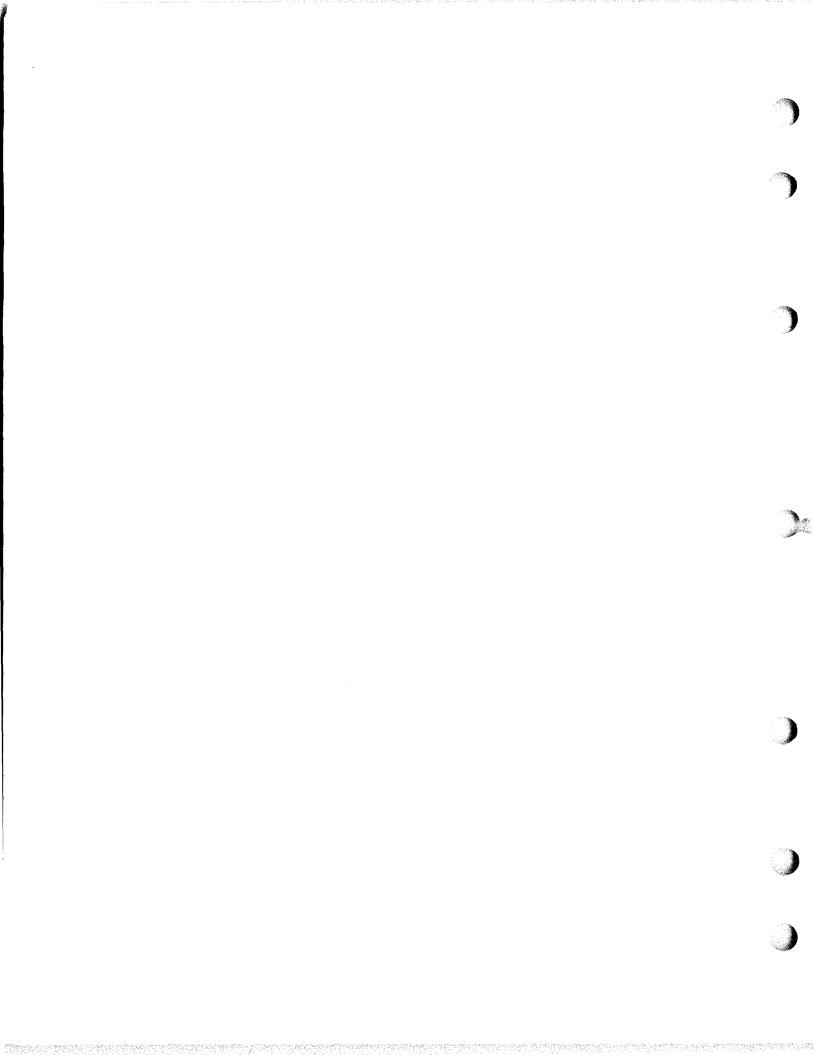


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573-123-800TC	28 Send-Receive Reperforator Keyboard Base (LTRK) and 28 Send-Receive Tape Printer Keyboard Base (LTPK)	1	March 1965
573-133-801TC	28 Electrical Service Unit (LESU) for Reperforators	2.	October 1967
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NOTE: For motors refer to bulletin 295B *Indicates revised sections



28 and 29 NONTYPING REPERFORATOR (LRPE)

PARTS

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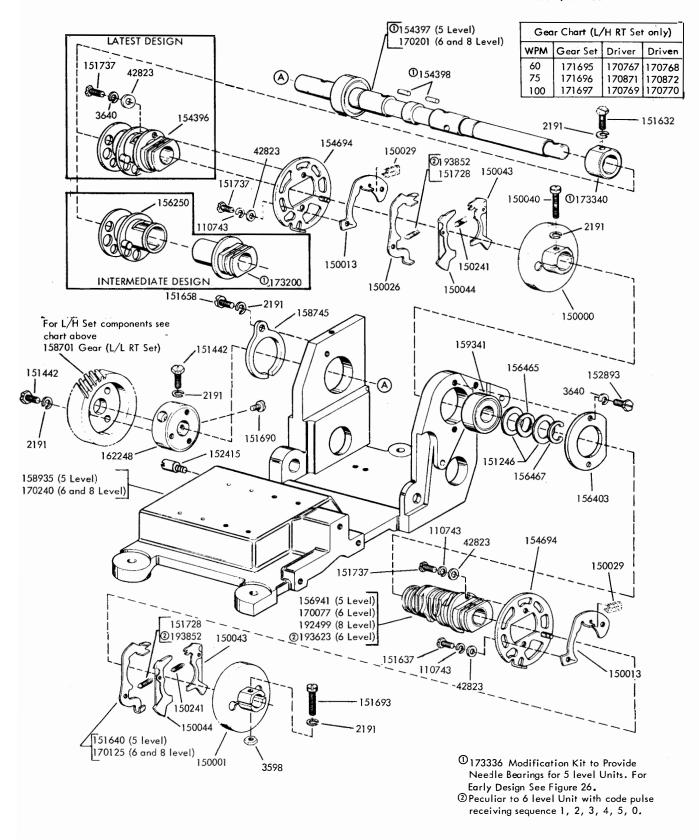


FIGURE 1. SINGLE CYCLE SELECTOR CLUTCH MECHANISM

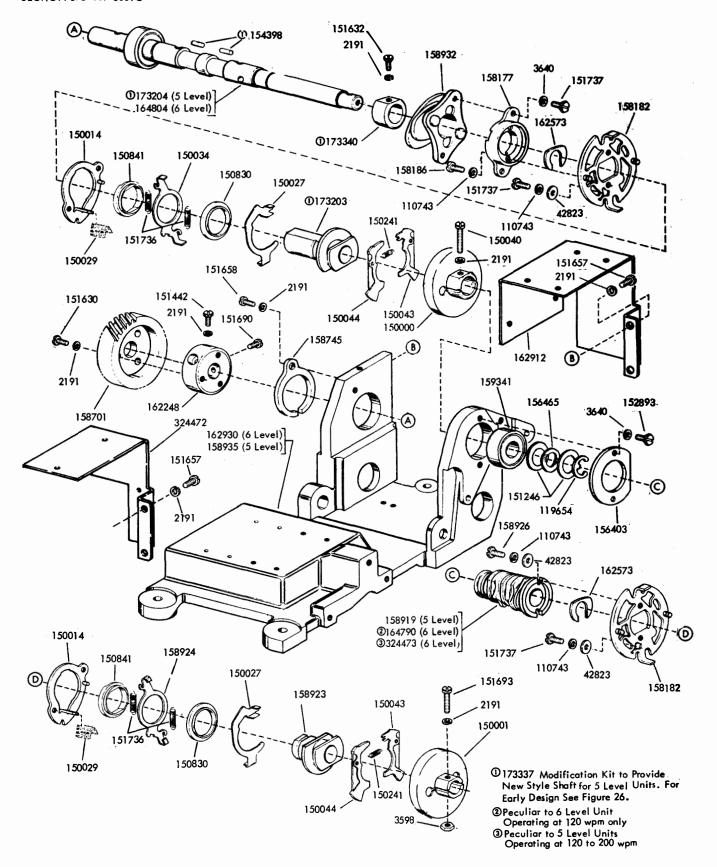


FIGURE 2. TWO CYCLE SELECTOR CLUTCH MECHANISM

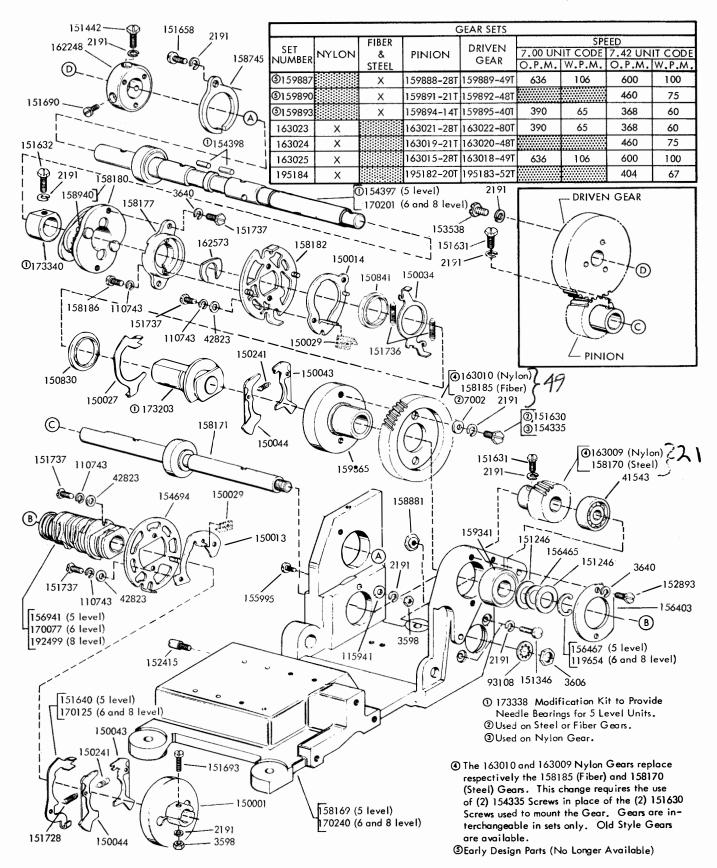


FIGURE 3. DOUBLE SHAFT MECHANISM

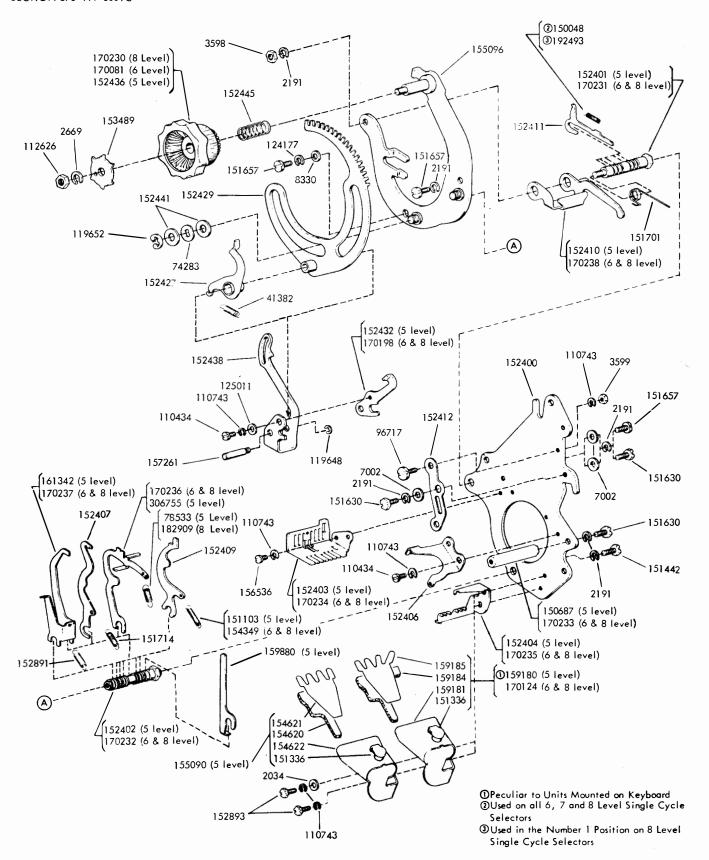


FIGURE 4. SINGLE CYCLE SELECTOR MECHANISM

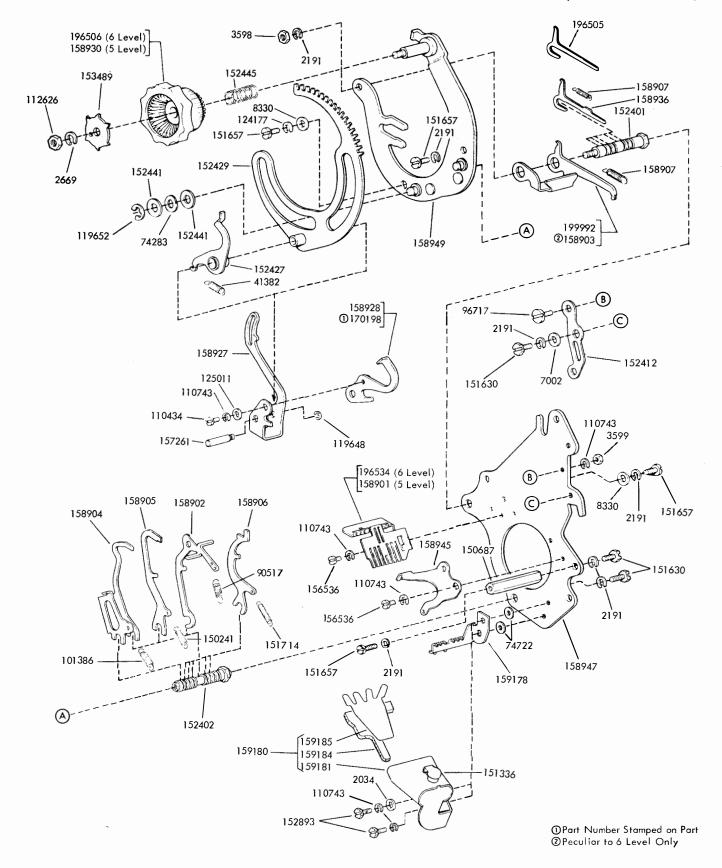
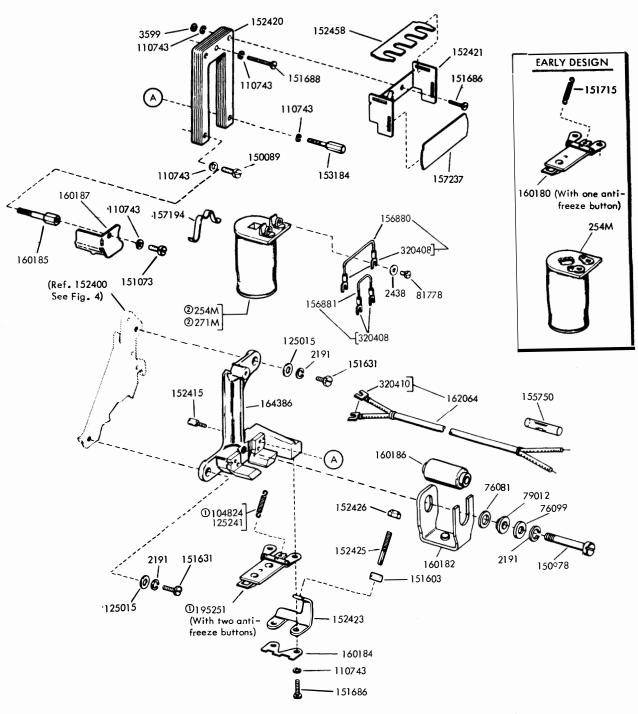


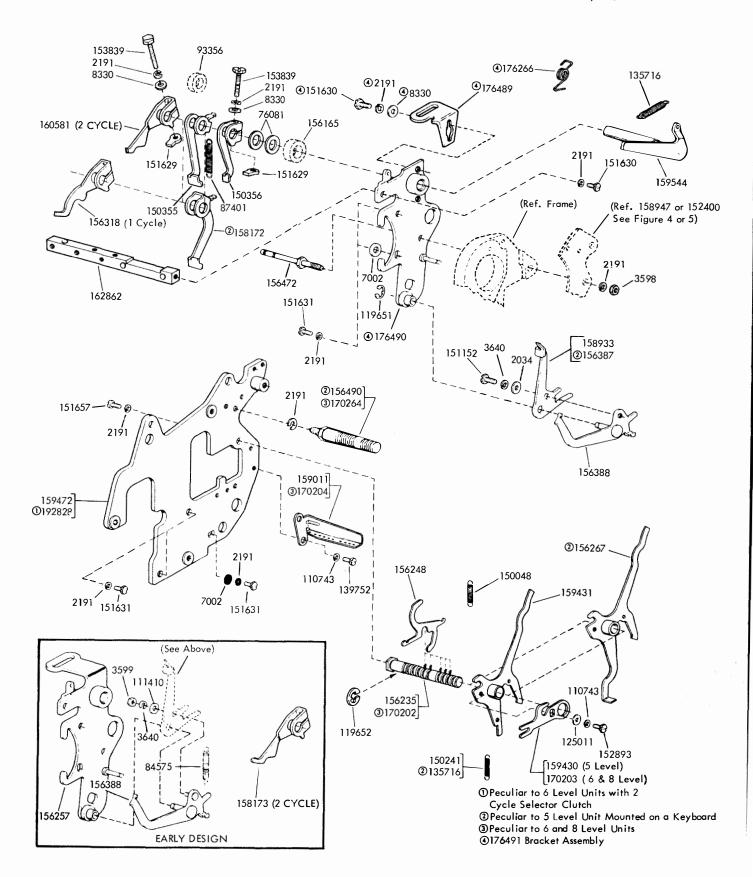
FIGURE 5. TWO CYCLE SELECTOR MECHANISM



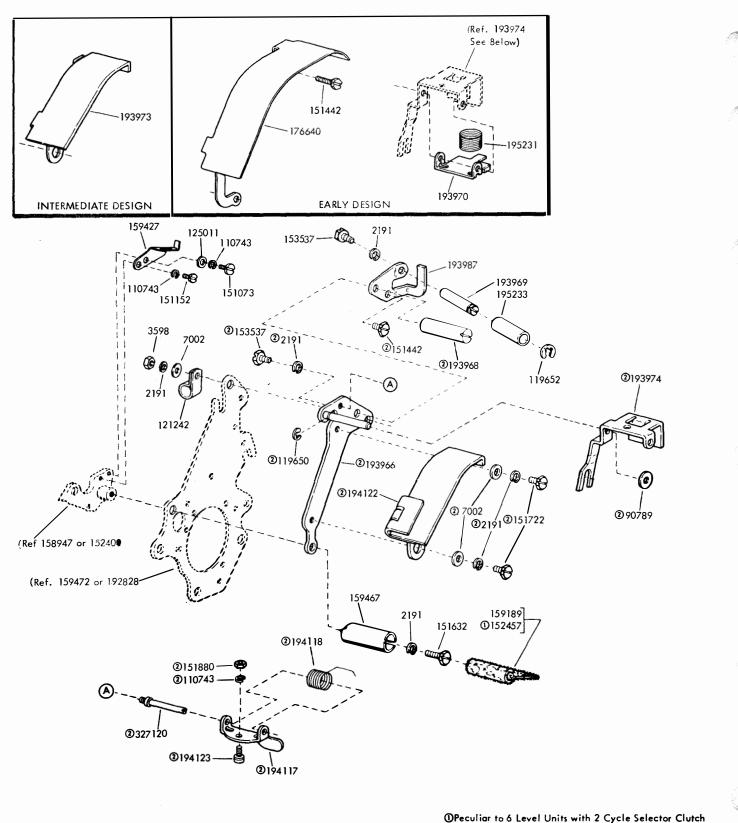
① 195634 Modification Kit to provide quick release of the armature. (New and Early design parts are interchangeable in pairs only).

FIGURE 6. SELECTOR MAGNET MECHANISM

② Part Number Stamped on Bottom



"IGURE 7. MAIN PLATE MECHANISM



②193993 Modification kit to Maintain Slack Tape Specification 502475 (Also see Figure 13)

FIGURE 8. MAIN PLATE MECHANISM (Continued)

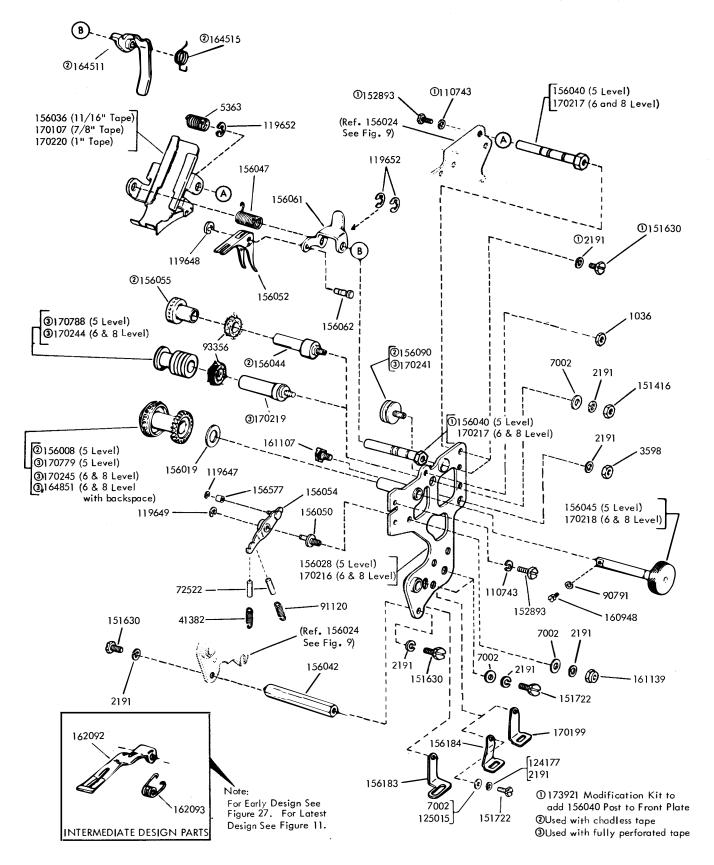


FIGURE 9. FRONT PUNCH PLATE MECHANISM

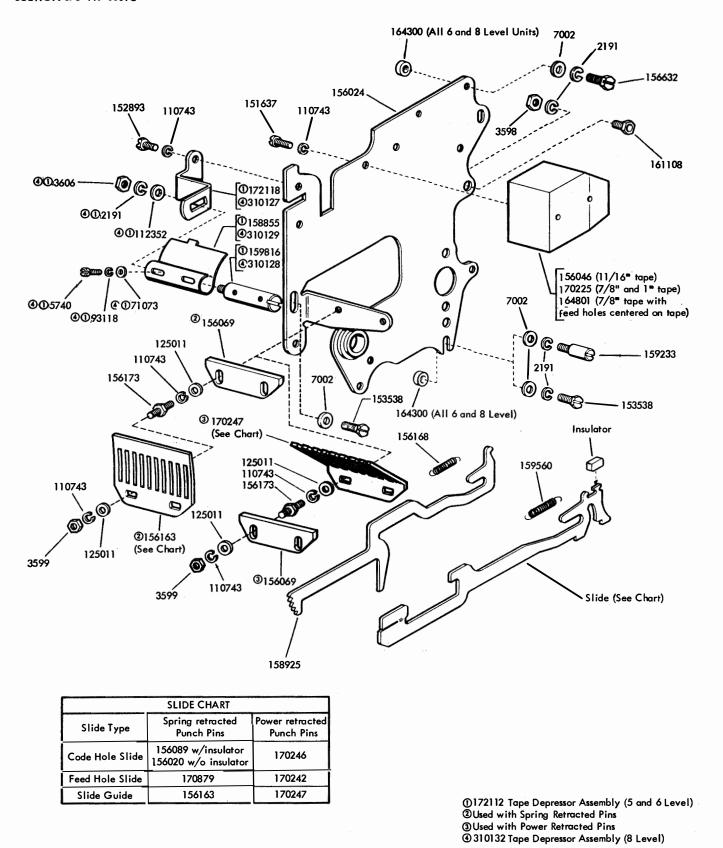


FIGURE 10. REAR PUNCH PLATE MECHANISM

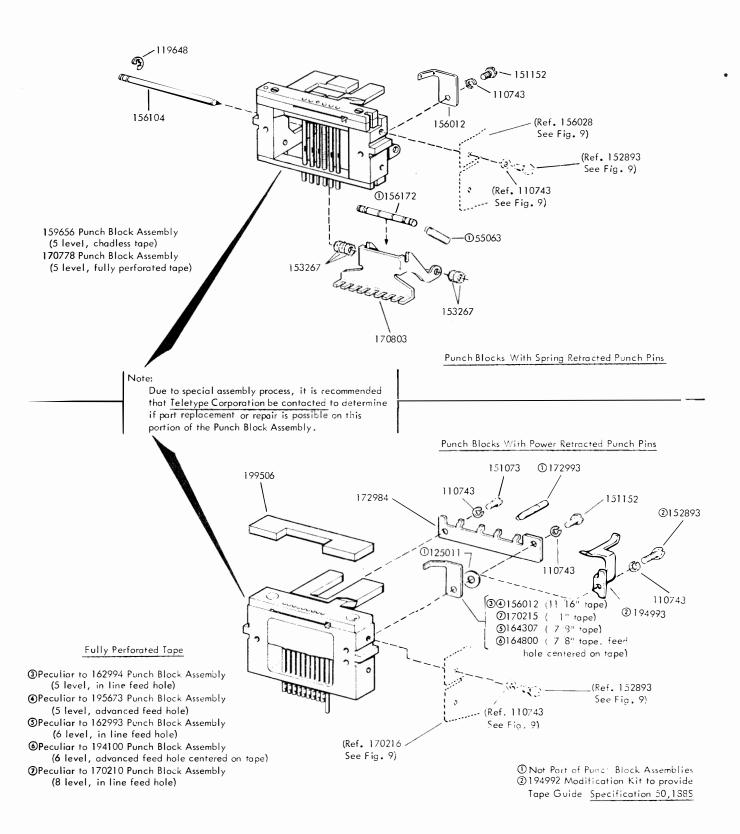
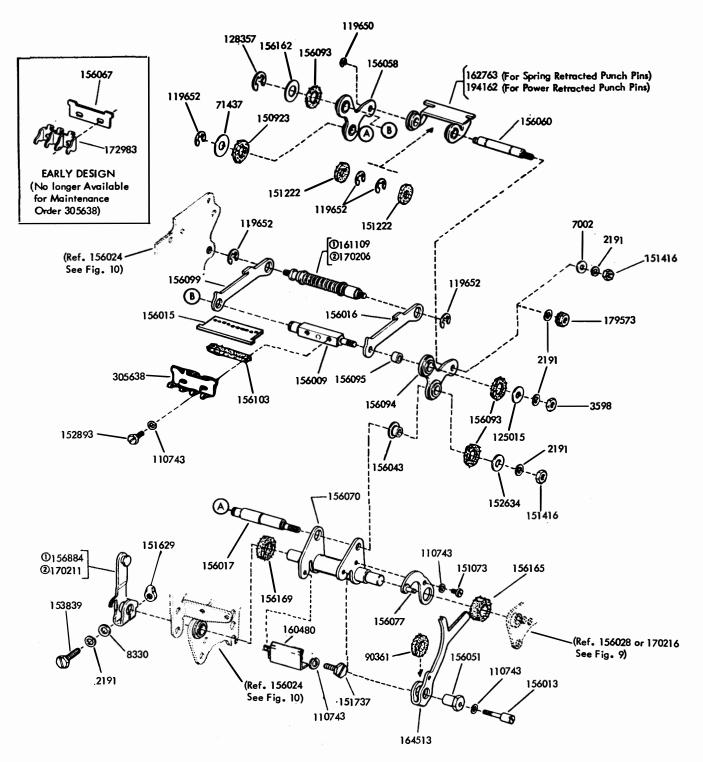


FIGURE 11. PUNCH BLOCK ASSEMBLIES



- ① Peculiar to 5 Level Units ② Peculiar to 6 and 8 Level Units
- FIGURE 12. PUNCH BAIL MECHANISM

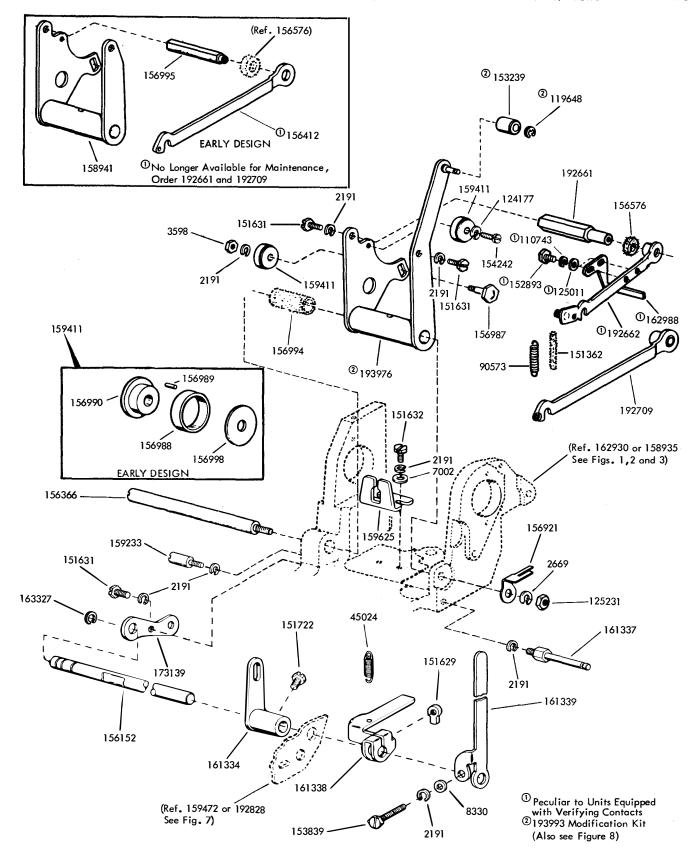
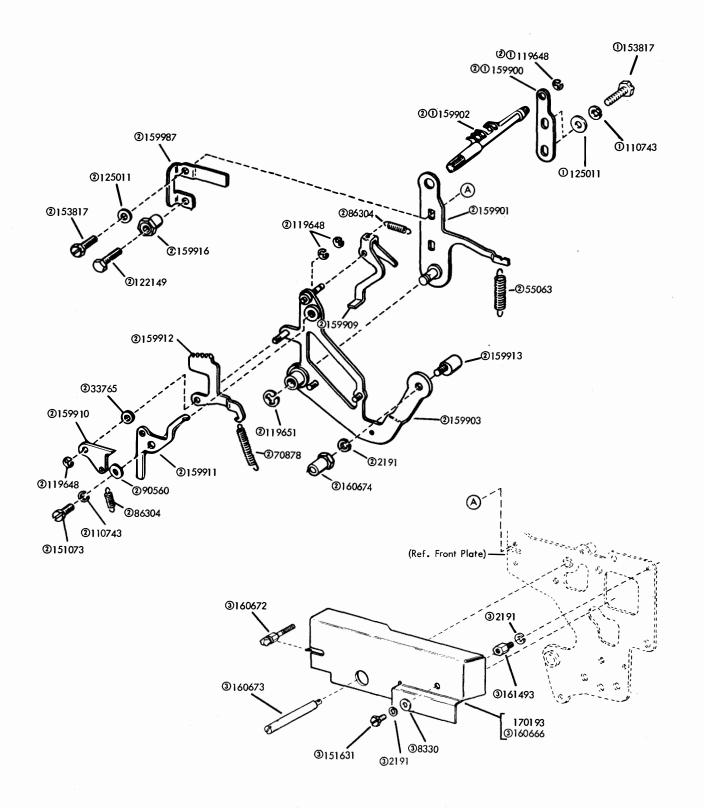


FIGURE 13. ROCKER BAIL MECHANISM



Peculiar to Units Producing Chadless Tape
 159363 Modification Kit to Add Manual Backspace
 160881 Modification Kit to Add Cover Guard

FIGURE 14. MANUAL BACKSPACE MECHANISM

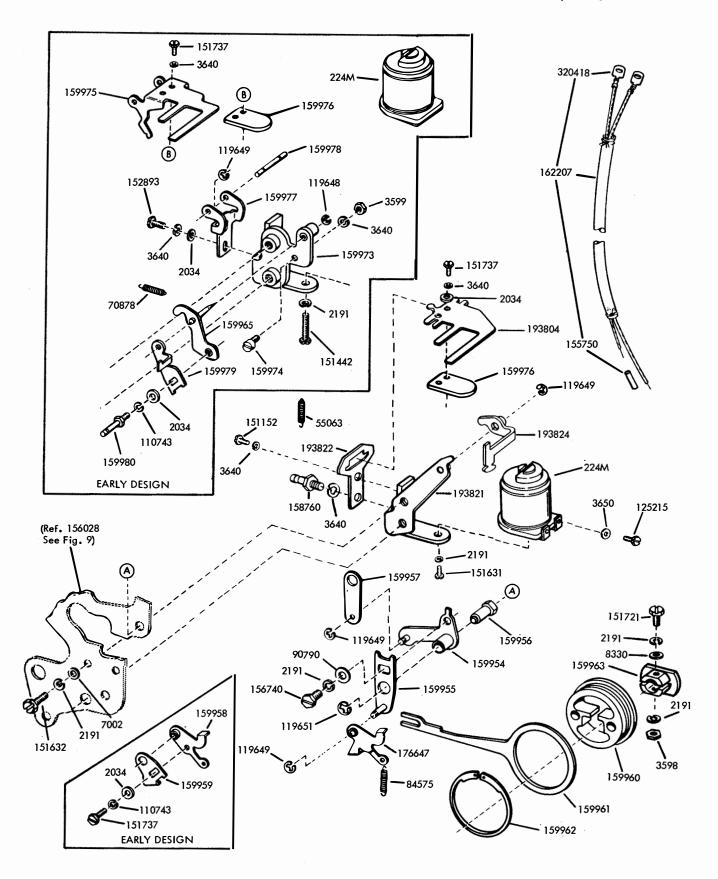


FIGURE 15. 159364 MODIFICATION KIT TO ADD POWER DRIVE TO BACKSPACE MECHANISM

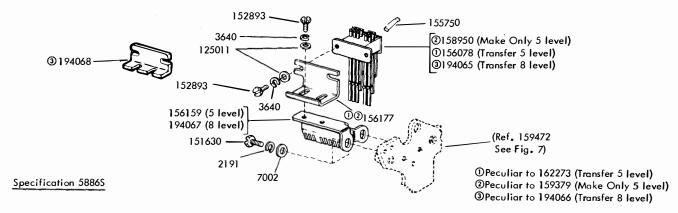


FIGURE 16. 159379 (MAKE ONLY 5 LEVEL), 162273 (TRANSFER 5 LEVEL) and 194066 (TRANSFER 8 LEVEL)
MODIFICATION KITS TO PROVIDE CODE READING CONTACTS

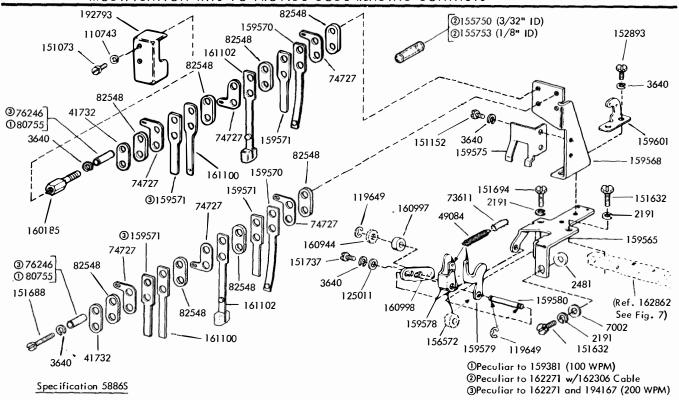


FIGURE 17. 159381,162271 AND 194167 MODIFICATION KITS TO PROVIDE AUXILIARY TIMING CONTACTS

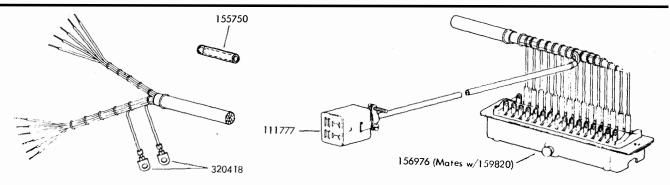


FIGURE 18. 158946 REPERFORATOR TRANSMITTER UNIT CABLE ASSEMBLY

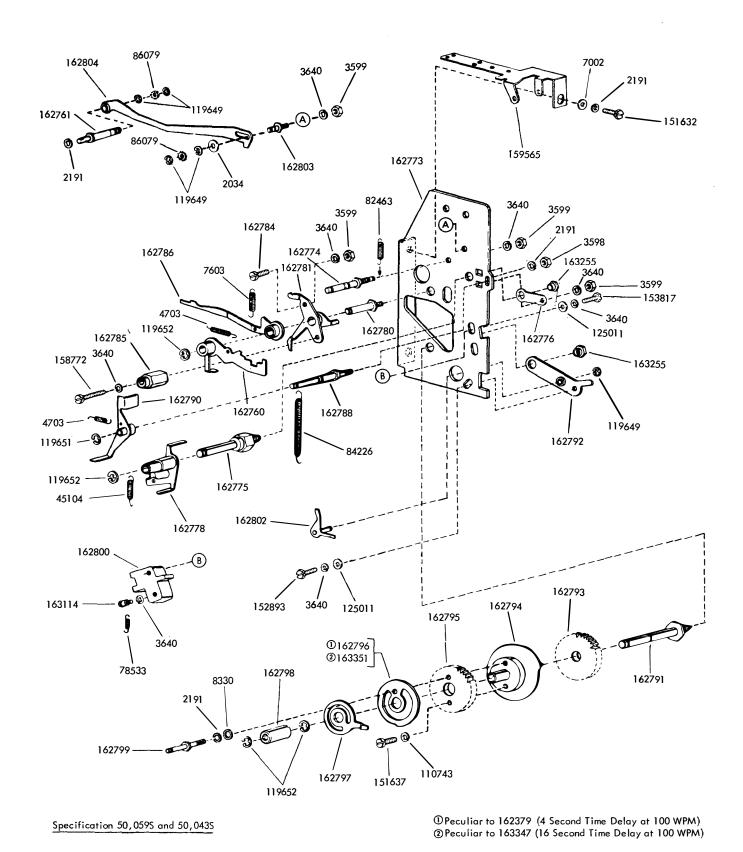


FIGURE 19. 162379 AND 163347 MODIFICATION KITS TO ADD AUTOMATIC NON-INTERFERING LETTERS TAPE FEED OUT

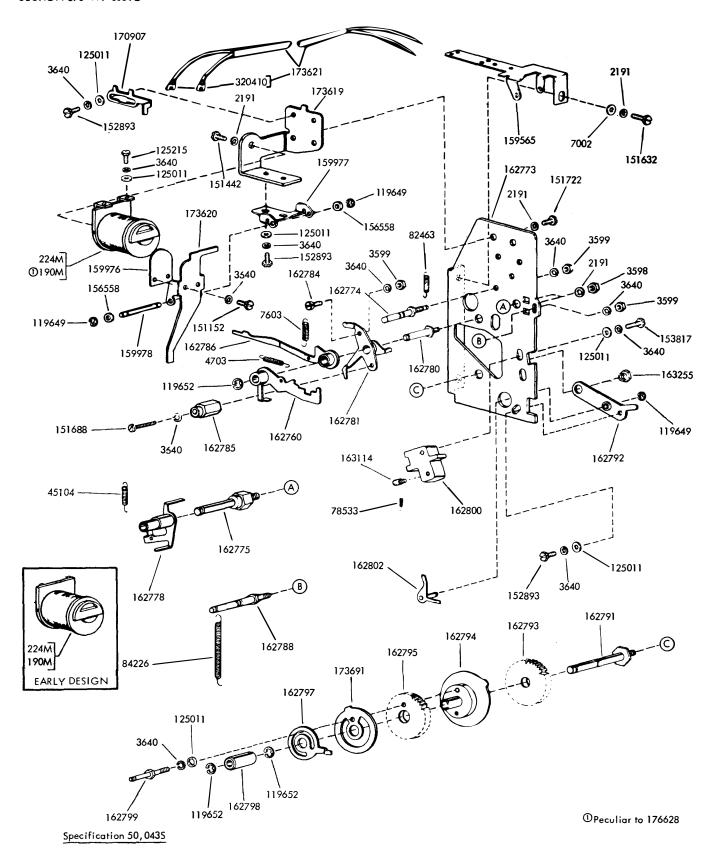


FIGURE 20. 162380 (BLANK), 173443 (LETTERS) AND 176628 (LETTERS) MODIFICATION KITS TO ADD REMOTE CONTROL NON-INTERFERING TAPE FEED OUT

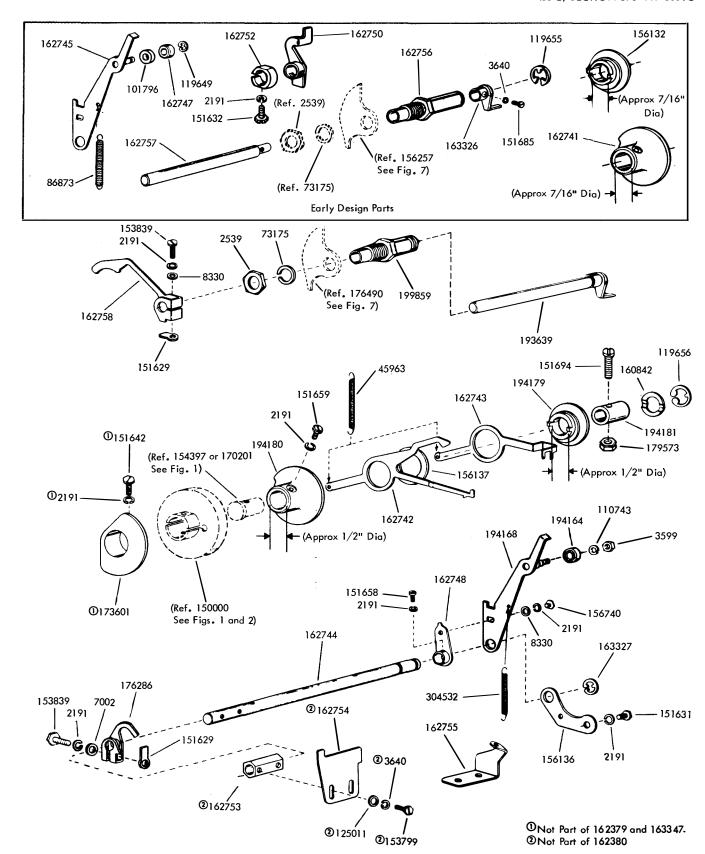


FIGURE 21. 162379,163347 (AUTOMATIC LETTERS) AND 162380,173443 AND 176628 (REMOTE CONTROL LETTERS) MODIFICATION KITS TO ADD NON-INTERFERING TAPE FEED OUT

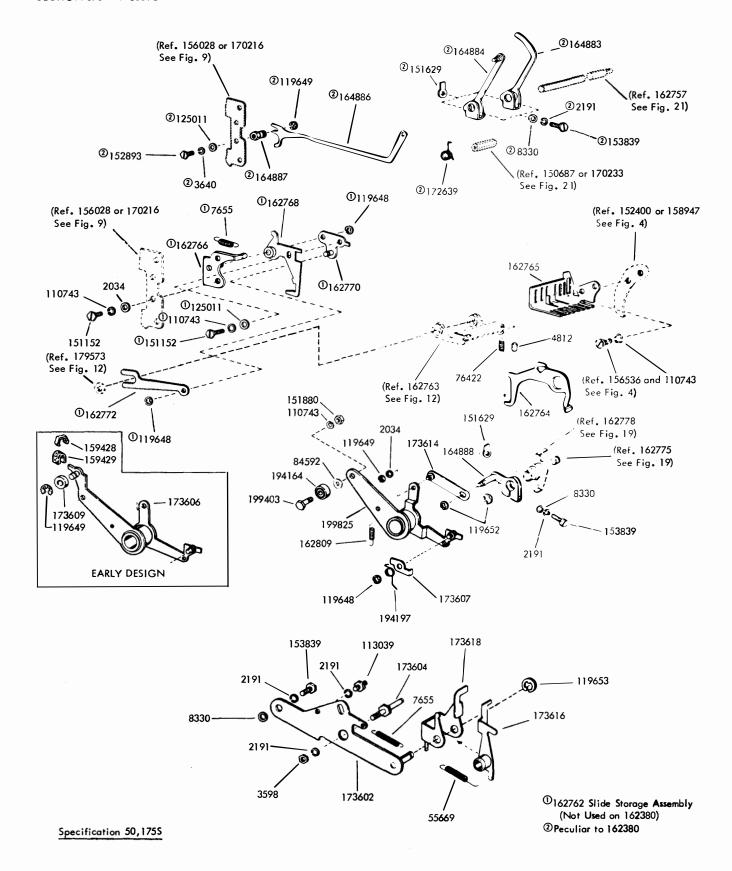
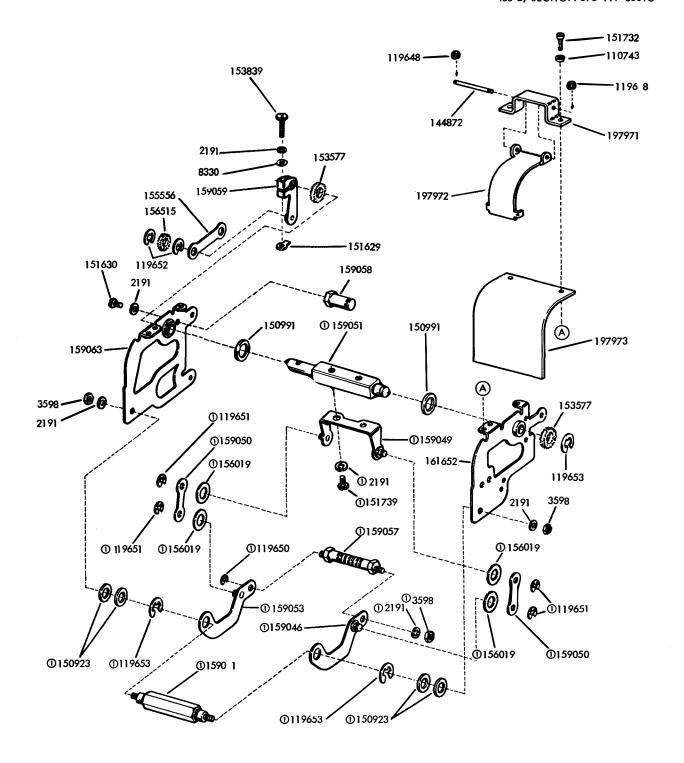


FIGURE 22. 162379,163347 (AUTOMATIC),162380 (BLANK),173443 AND 176628 (REMOTE CONTROL LETTERS) MODIFICATION KITS TO ADD NON-INTERFERING TAPE FEED OUT



①159072 Toggle Assembly

FIGURE 23. VERIFIER CONTACT MECHANISM TO VERIFY SIX CHARACTERS AFTER PERFORATION

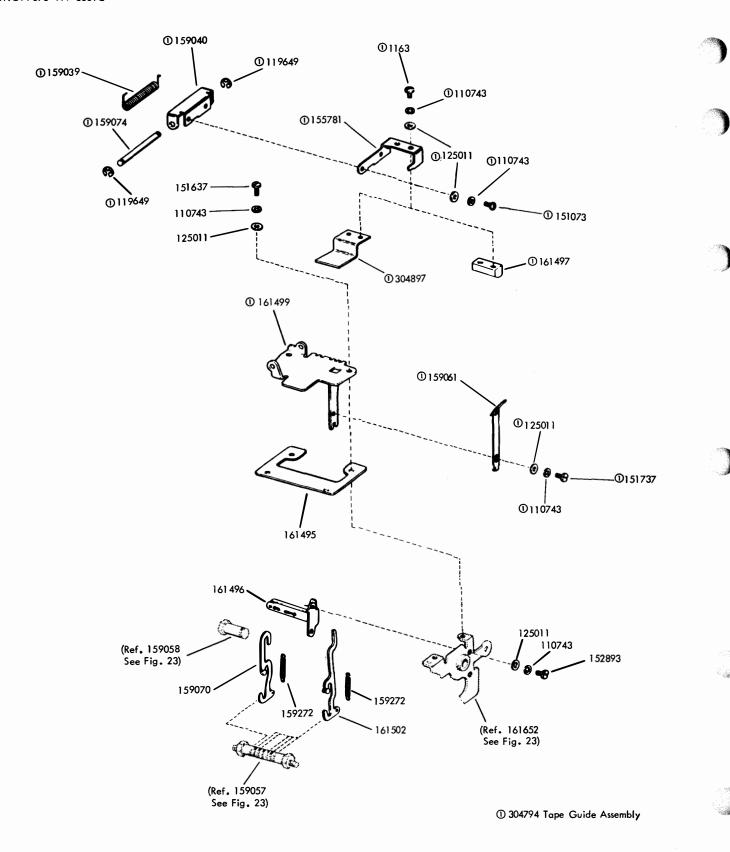


FIGURE 24. VERIFIER CONTACT MECHANISM TO VERIFY SIX CHARACTERS AFTER PERFORATION (continued)

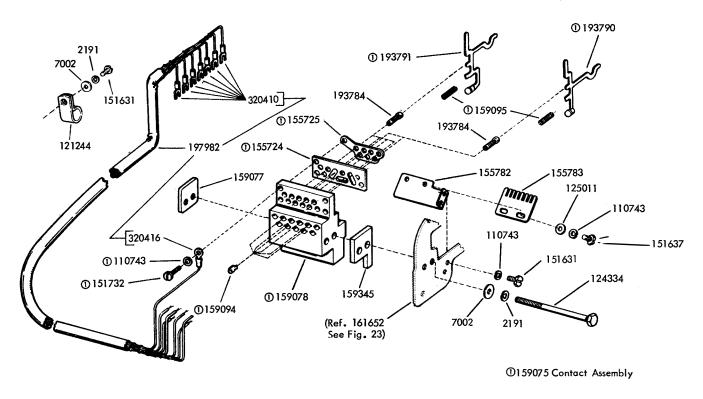


FIGURE 25. VERIFIER CONTACT BLOCK MECHANISM

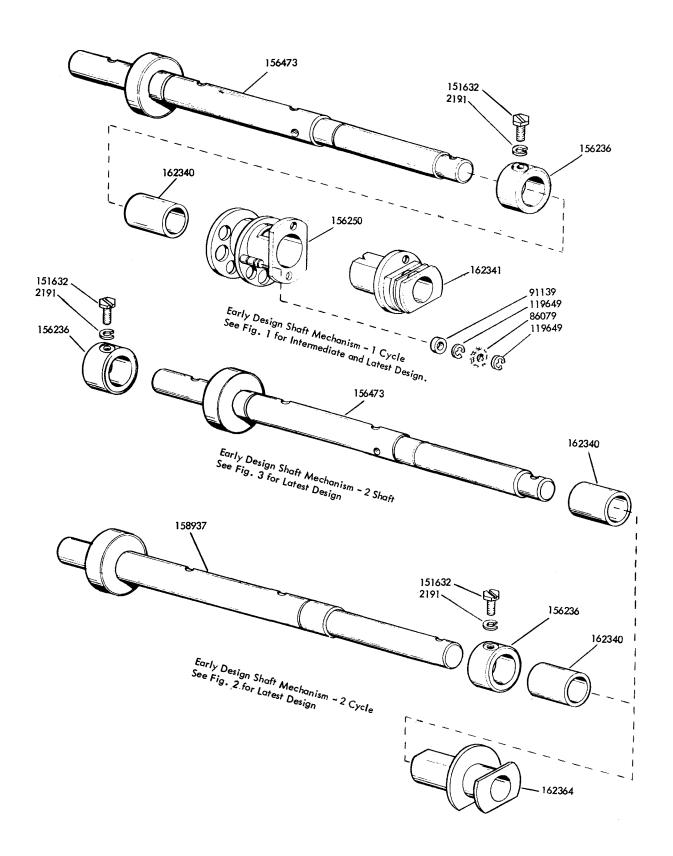
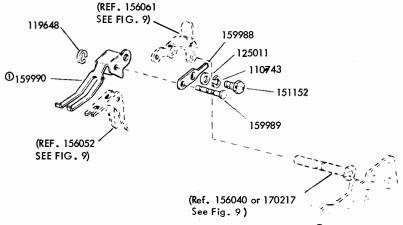


FIGURE 26. EARLY DESIGN SHAFT MECHANISM FOR 5 LEVEL UNITS



①159990 Tape Guide No Longer Available (For Maintenance , Order 194992 Mod. Kit Shown on Figure 11)

FIGURE 27. EARLY DESIGN TAPE GUIDE

For Intermediate Design See Figure 9

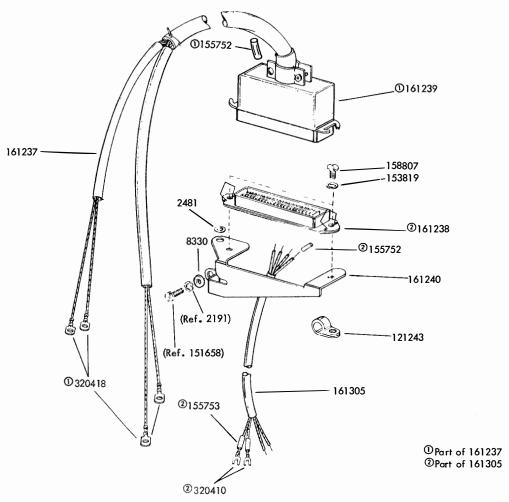


FIGURE 28. KEYBOARD REPERFORATOR UNIT CABLE ASSEMBLY

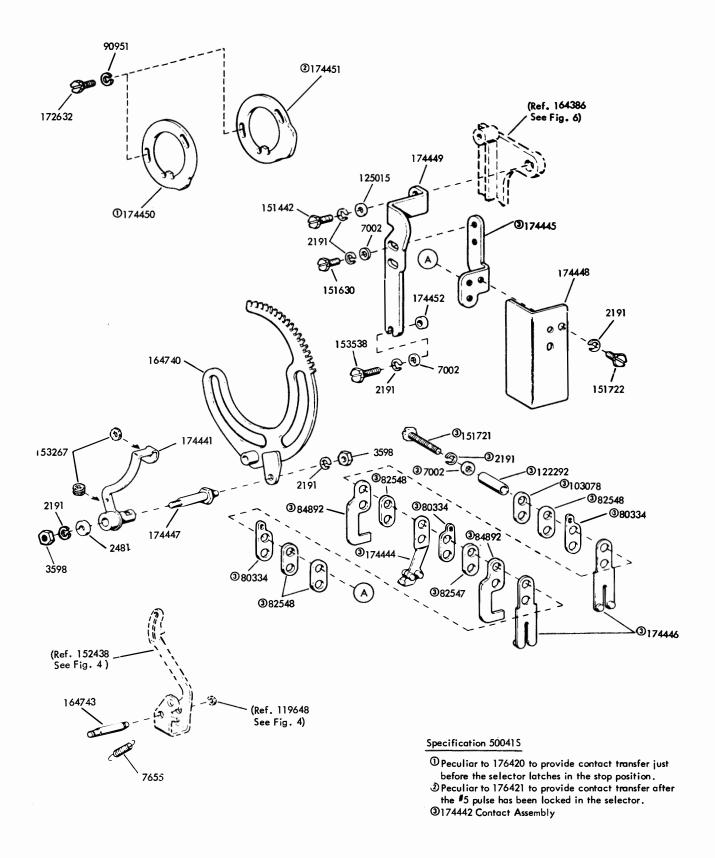
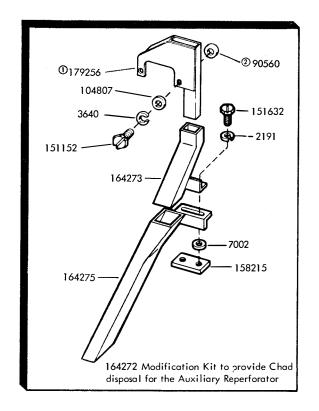
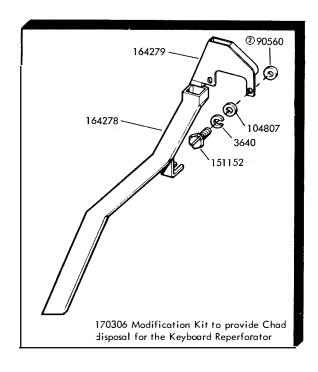
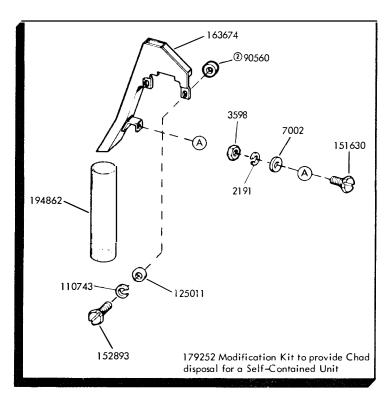
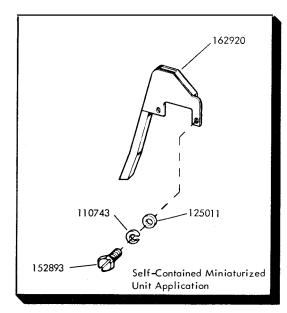


FIGURE 29. 174439 (LESS CAM), 176420 AND 176421 (WITH CAMS) MODIFICATION KITS TO ADD TIMING CONTACT MECHANISM TO 5 LEVEL SINGLE CYCLE UNITS









- 179256 Chad Chute is also used for the L/H RT Set.
- (2) The 90560 Flat Washer mounts between the Chad Chute and the Punch Block when the Punch Block face is offset.

 When the Punch Block face is flat the 90560 Flat Washer mounts between the chad chute & the 104807 or the 125011 Flat Washer.

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224M	Coil, Magnet 17, 20	84592	Shim, .004" Thk 22	150001	Drum, Clutch 3, 4, 5
254M	Coil, Magnet 8	84892	Stiffener 28	150013	Disk, Adjusting 3, 5
27 IM	Coil, Magnet 8	86079 86304	Washer, Felt 19, 26	150014 150026	Disk, Adjusting 4, 5
1036 1163	Nut, 6-40 Hex 11 Screw, 4-40 x 3/16 Fil 24	86873	Spring 16 Spring 21	150027	Lever, Shoe Release 3 Lever, Shoe Release 4, 5
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73611	Wick, Felt 18	121243	Clamp, 3/16 ID Cable 27	151658	Screw, 6-40 x 5/16 Fil 3, 4, 5,
74283	Washer, Spring 6, 7	121244 122149	Clamp, 1/4 ID Cable 25	151659	21, 27
74722 74727	Washer, Flat 7 Terminal, Contact 18	122147	Screw, 4-40 Spl 16 Bushing, Insulating 28	151685	Screw, 6-40 x 1/2 Fil 21 Screw, 4-40 x 5/16 Fil 21
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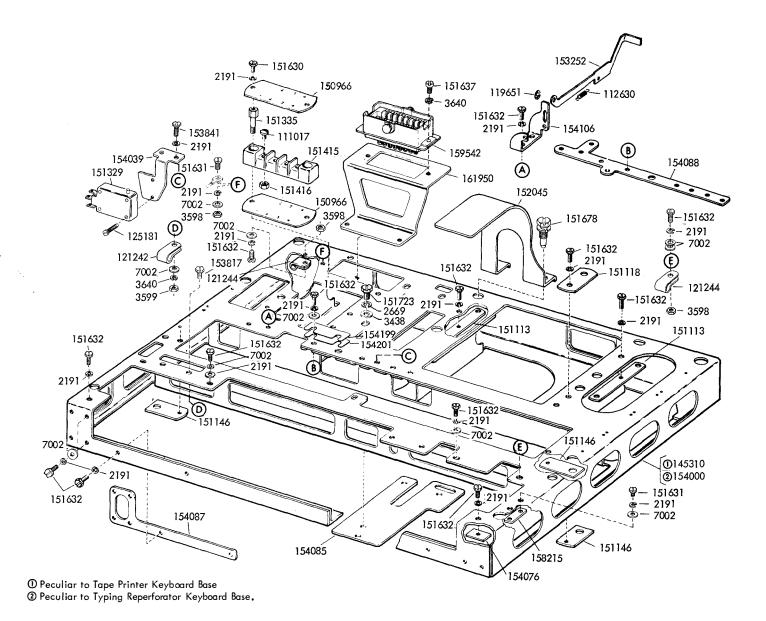
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28 SEND-RECEIVE REPERFORATOR KEYBOARD BASE (LTRK)

a n d

28 SEND-RECEIVE TAPE PRINTER KEYBOARD BASE (LTPK)

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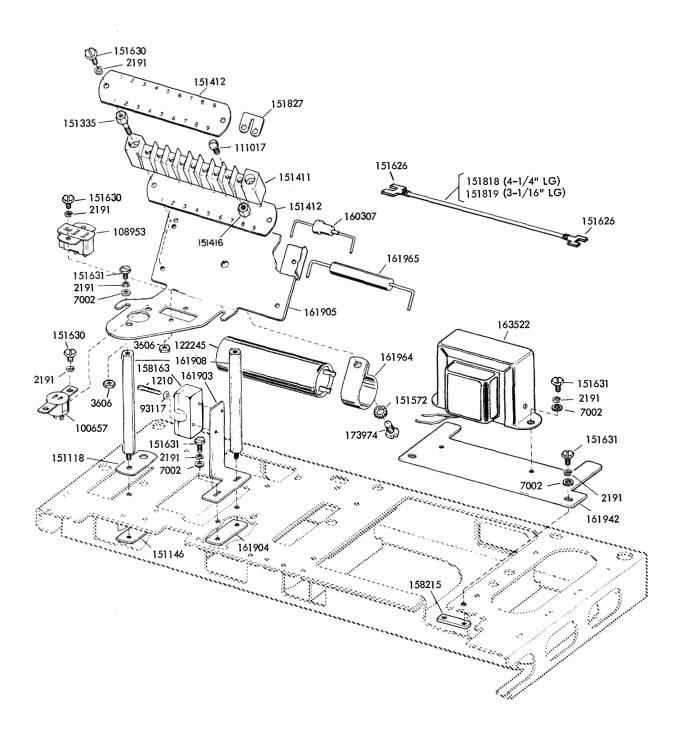
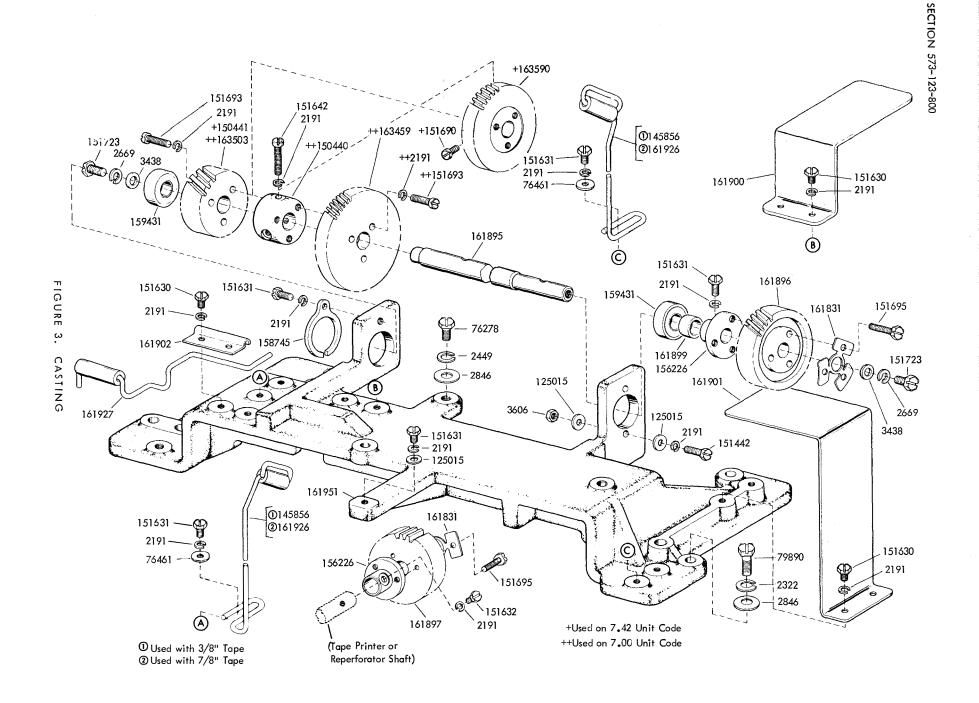
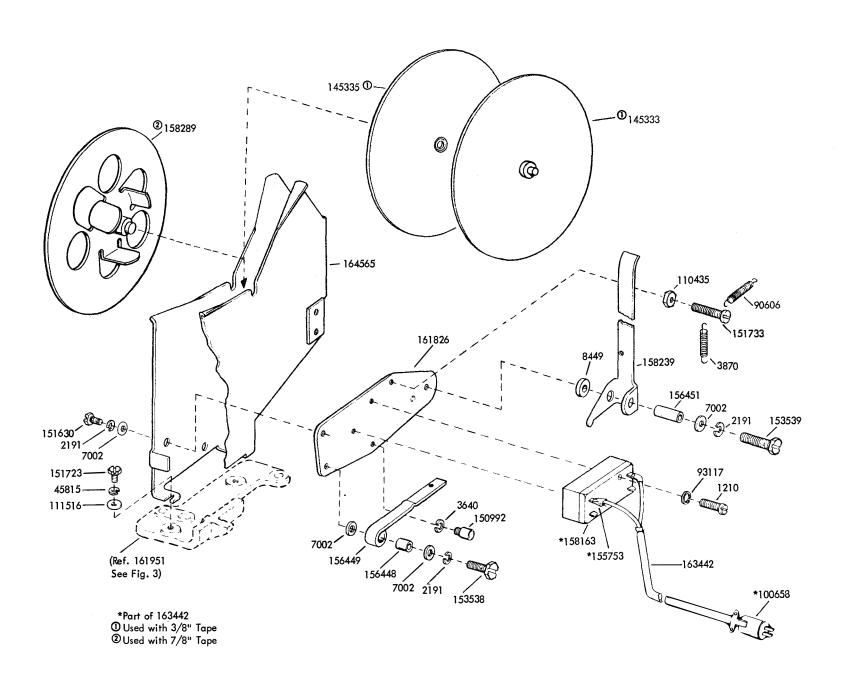
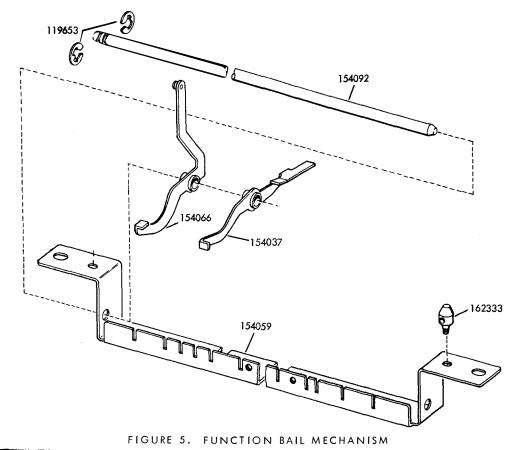


FIGURE 2. ELECTRICAL COMPONENTS







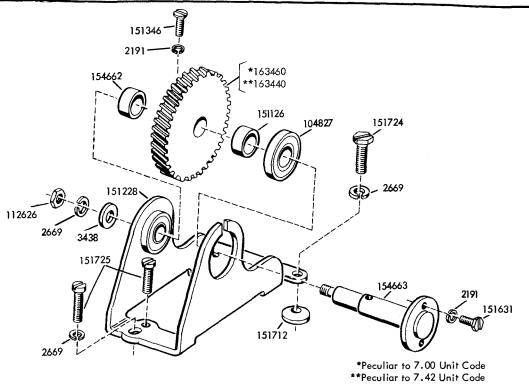
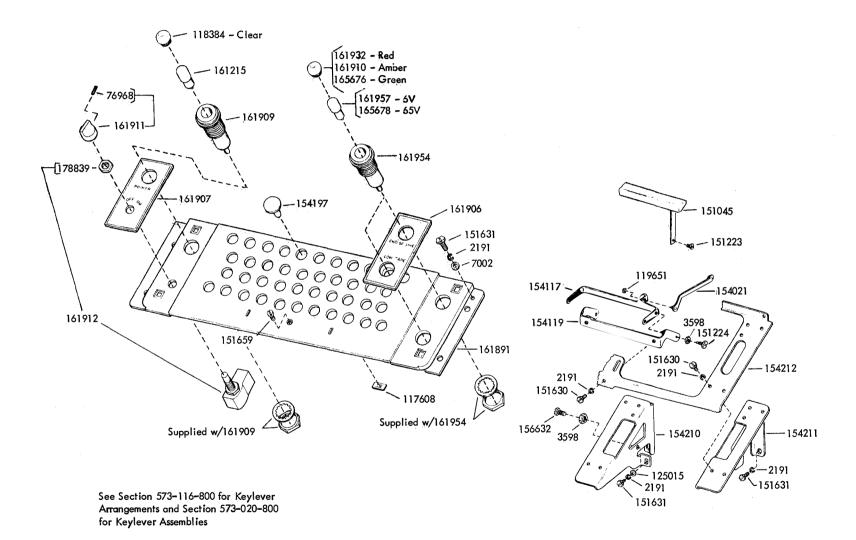


FIGURE 6. INTERMEDIATE GEAR MECHANISM



FIGURE

CODE BAR MECHANISM

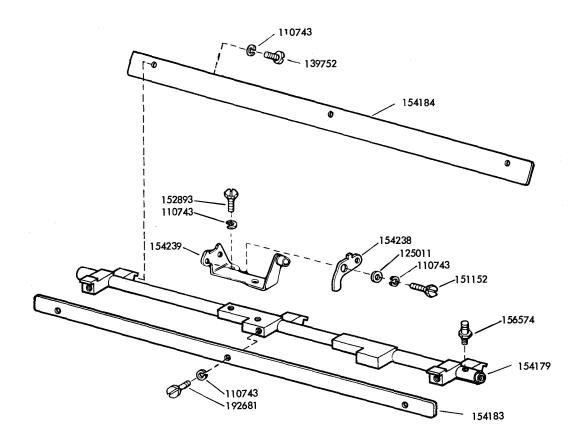


FIGURE 9. UNIVERSAL BAIL MECHANISM

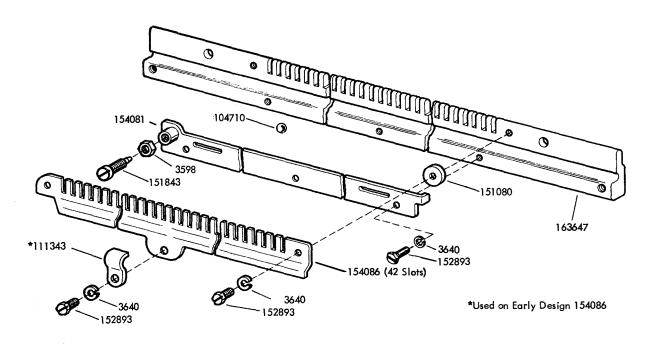
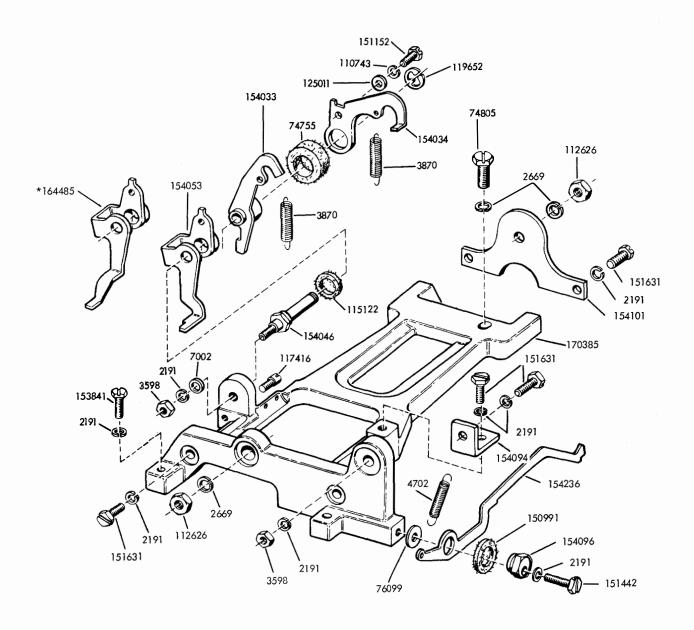
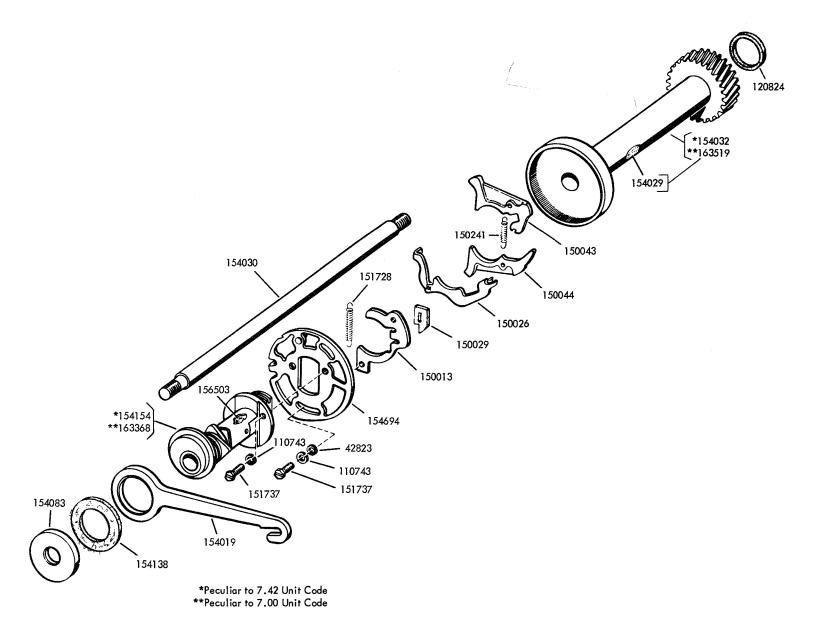


FIGURE 10. BAIL LOCK MECHANISM



*Peculiar to Units Equipped with Synchronous Pulsed Transmission

FIGURE 11. SIGNAL GENERATOR FRAME MECHANISM



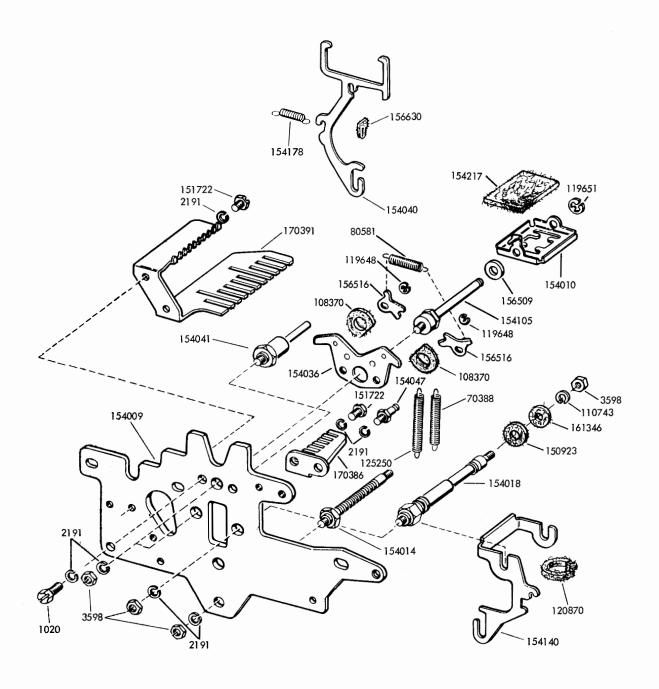
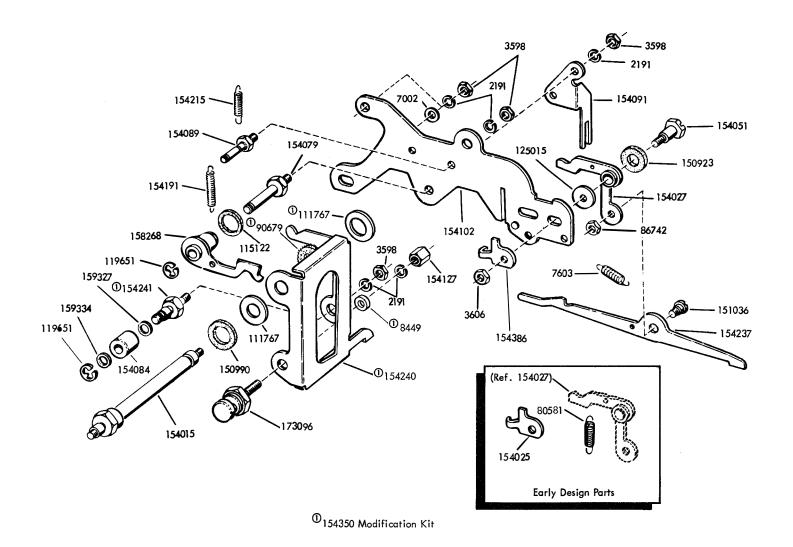


FIGURE 13. SIGNAL GENERATOR FRONT PLATE MECHANISM



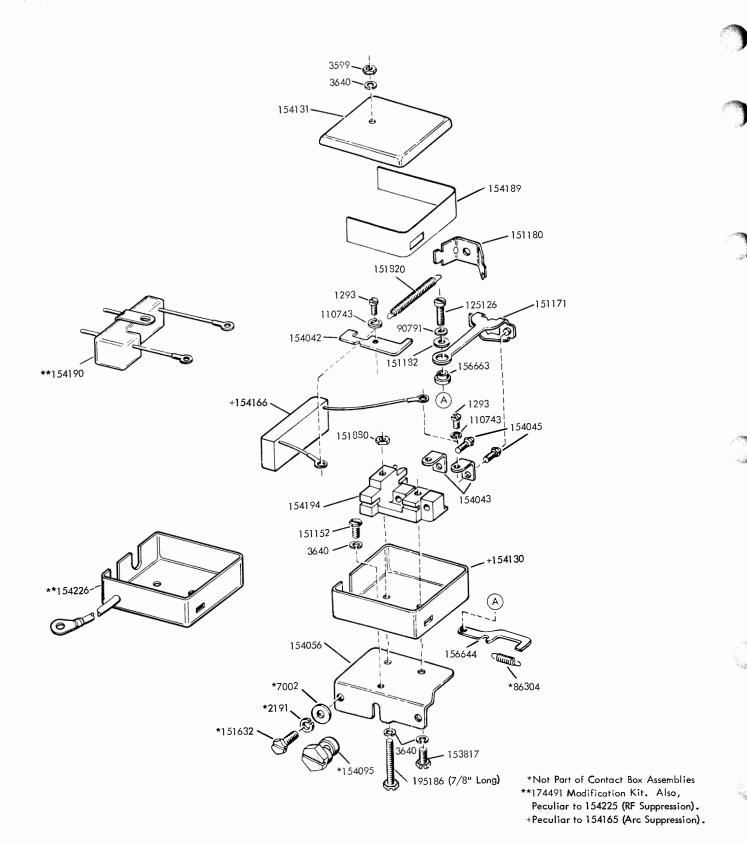


FIGURE 15. 154165 AND 154225 SIGNAL GENERATOR CONTACT BOX ASSEMBLIES

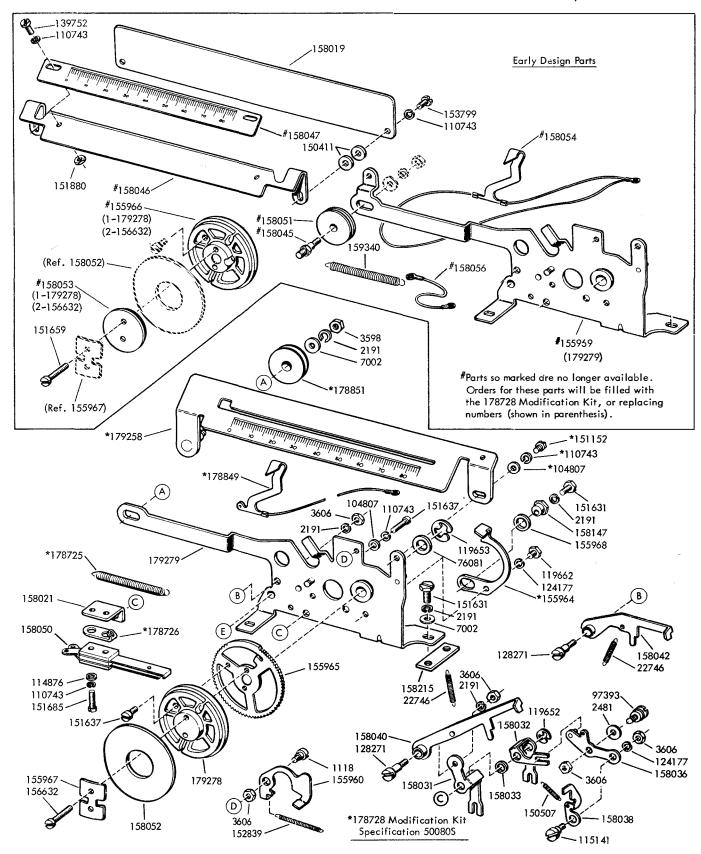


FIGURE 16. 155990 CHARACTER COUNTER MECHANISM

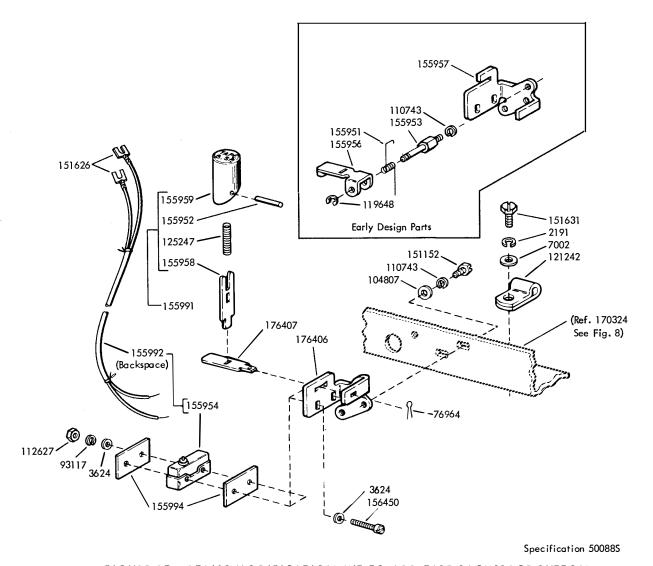


FIGURE 17. 176405 MODIFICATION KIT TO ADD TAPE BACKSPACE BUTTON

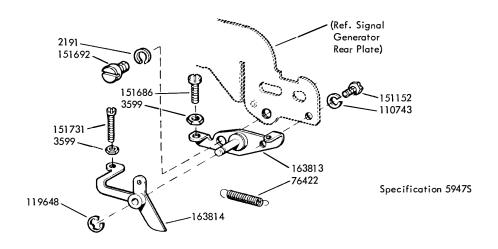
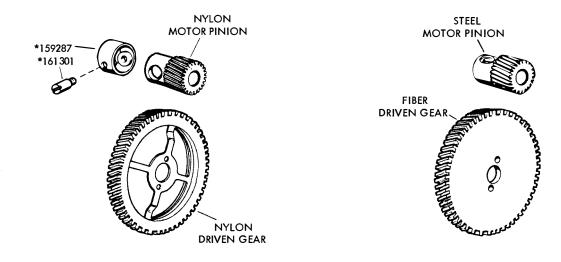


FIGURE 18. 163775 MODIFICATION KIT TO PROVIDE REPEAT ON SPACE MECHANISM



*Supplied with nylon gear sets (Except 173795)

GEAR SETS FOR SEND-RECEIVE KEYBOARD BASE											
_	SPEED SPEED										
Set Number	Pinion	Teeth	Driven Geor	Teeth	7.00 U	7.00 Unit Code		nit Code			
140mbet			0001		WPM	Baud	WPM	Baud			
151060 161293	151130 (S) 159278 (N)	14	151131 (F) 159279 (N)	96			60	45.5			
152766	152765 (S)	13	152764 (F)	81			67	50			
151075 161294	151132 (S) 159281 (N)	17	151133 (F) 159282 (N)	93			75	50			
151100 161295	151134 (S) 159284 (N)	20	151135 (F) 159285 (N)	84			100	74.2			
163504	163461 (N)	18	163462 (N)	117	71	50					
163505	163463 (N)	24	163464 (N)	104	107	75					
173795	173794 (N)	14	173793 (N)	100	65	45.5					

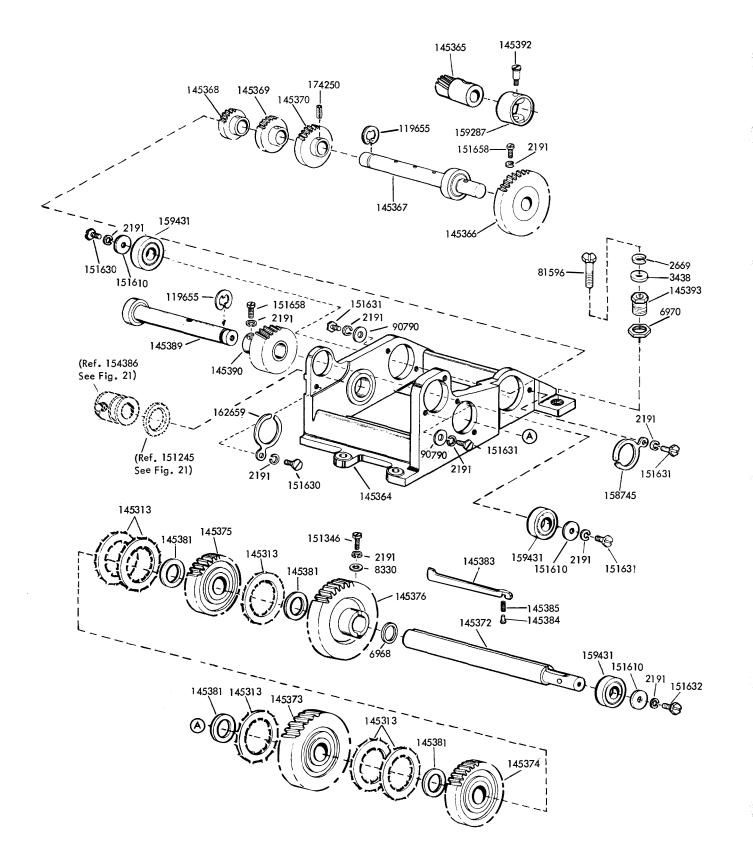


FIGURE 20. GEAR SHIFT MECHANISM FOR TAPE PRINTER KEYBOARD BASE

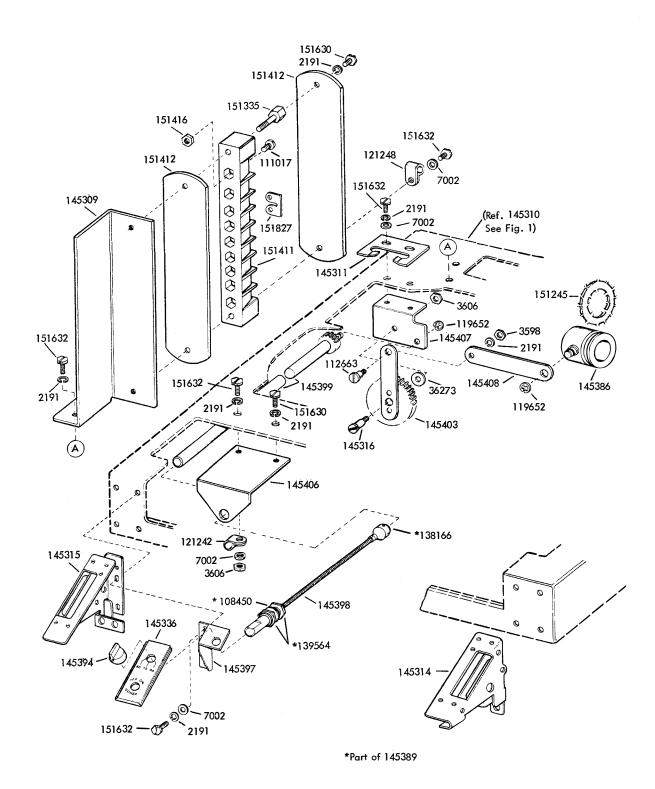


FIGURE 21. GEAR SHIFT MECHANISM FOR TAPE PRINTER KEYBOARD BASE

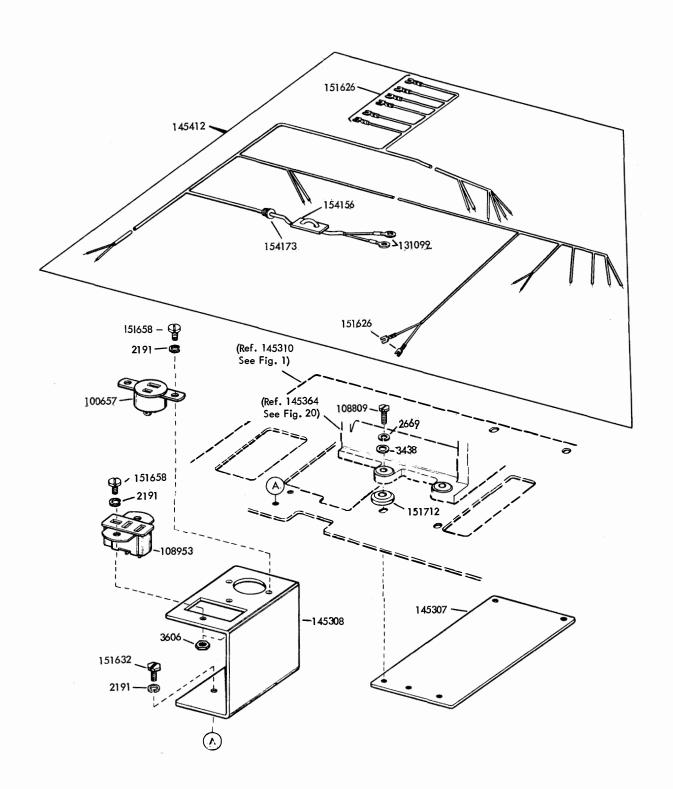


FIGURE 22. CONNECTORS AND CABLE

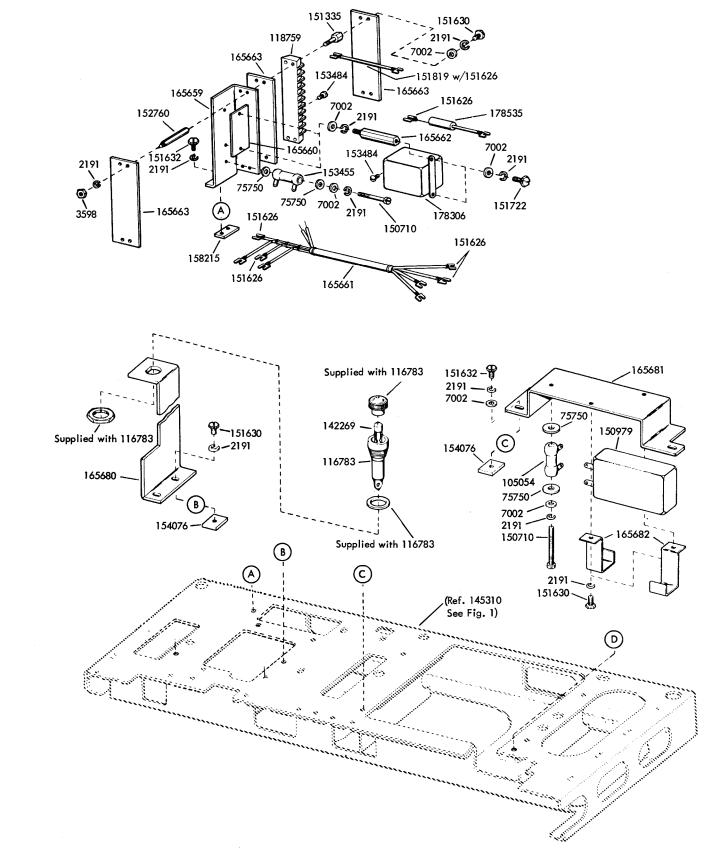


FIGURE 23. ELECTRICAL COMPONENTS FOR THE TAPE PRINTER KEYBOARD BASE

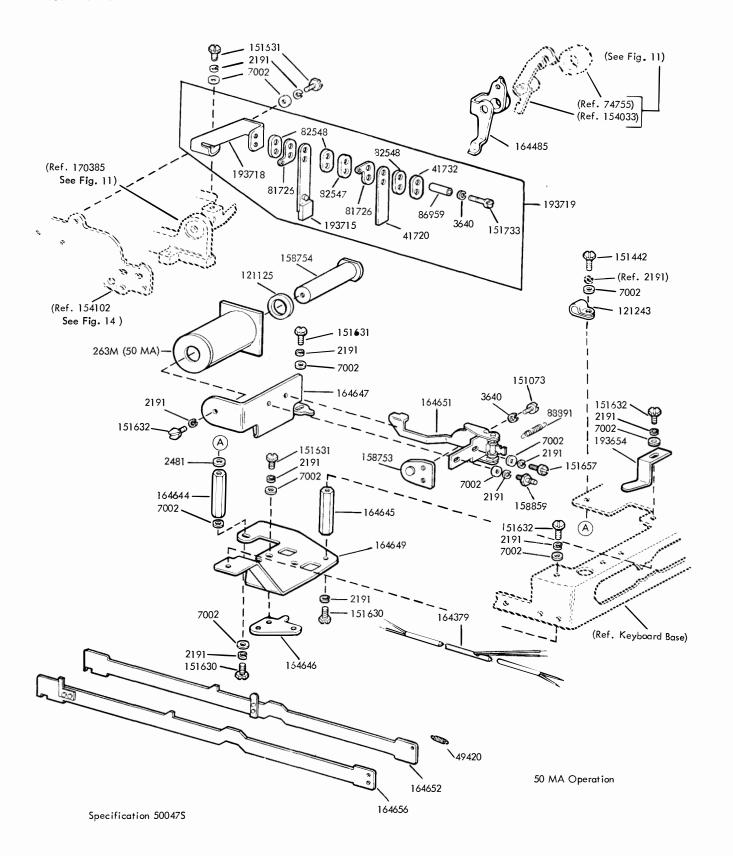
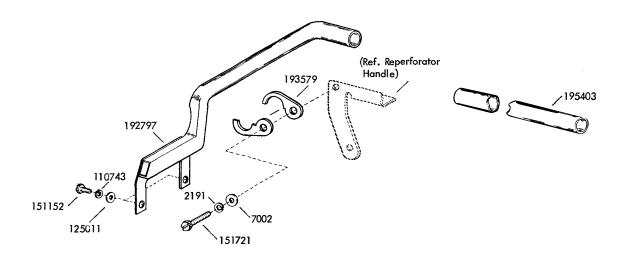


FIGURE 24. 193800 MODIFICATION KIT TO PROVIDE SYNCHRONOUS PULSED TRANSMISSION



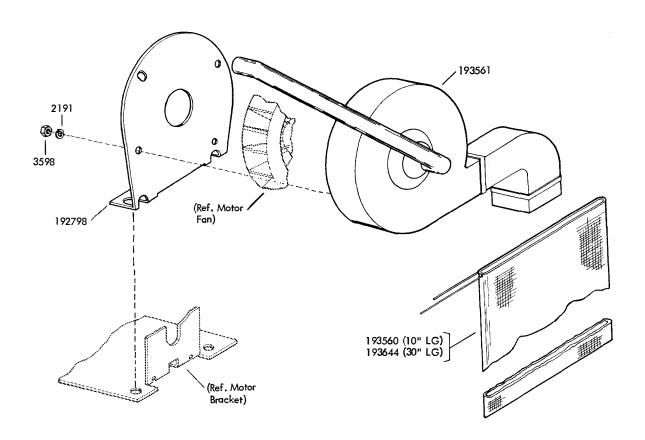
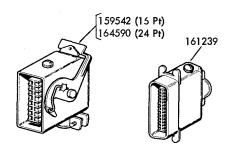
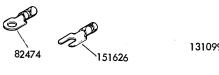
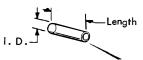


FIGURE 25. 192999 MODIFICATION KIT TO PROVIDE VACUUM CHAD REMOVAL FOR SEND-RECEIVE TYPING REPERFORATOR SET









(e)	
154156	\sim



INSULATING SLEEVE								
Number	I.D.	Length						
155750 155751 155752 155753 155754 155755	3/32" 1/8" 5/64" 1/8" 1/16" 11/64"	1/2" 1" 1/2" 1/2" 1/2" 5/8"						
100/55	11/64"	5/8"						

Unit	Cable Assembly
	145412, 165656 145412, 165679 165656
LTRK2 -	161878, 161892 161892, 173396 172721, 173922

NUMERICAL INDEX

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
263M	Coil, Magnet 22	100658	Connector, Plug (2 Pt) 5	145313	Washer, Felt 18
1020	Screw (6-40 x 1/4 Hex) 12	104710	Ball, Bearing 9	145314	Bracket, Right 19
1118	Screw, Shoulder (6-40) 15	104807	Washer, Flat 15, 16	145315	Bracket, Left 19
1210	Screw (2-56 x 5/8 Fil) 3, 5	104827	Bearing, Ball 6	145316	Screw, Shoulder (6-40) 19
1293	Screw (4-40 x 1/8 Fil) 14	104991	Screw (2-56 x 1/2 Fil) 16	145333	Disk W/Hub 5
2191	Washer, Lock 2, 3, 4, 5, 6, 7,	105054	Resistor (5 Ohm) 21	145335	Disk W/Knob 5
	8, 10, 12, 13, 14, 15, 16, 18, 19, 20, 21, 22, 23	108370 108450	Washer, Felt 12 Washer, Lock 19	145336 145364	Plate 19 Bracket W/Bearing 18
2322	Washer, Lock 4	108809	Screw (10-32 x 27/32 Hex) 20	145365	Pinion (20 T) 18
2415	Spring 8	108953	Connector, Receptacle (3 Pt) 3,	145366	Gear (56 T) 18
2449	Washer, Lock 4		20	145367	Shaft, Drive 18
2481	Washer, Flat 15, 22	110435	Nut (4-40 Hex) 5	145368	Gear (27 T) 18
2669	Washer, Lock 2, 4, 6, 10, 18,20	110437	Spring 8	145369	Gear (24 T) 18
2846	Washer, Flat 4	110743	Washer, Lock 9, 10, 11, 12, 14,	145370	Gear (24 T) 18
3438 3598	Washer, Flat 2, 4, 6, 18, 20 Nut (6–40 Hex) 2, 7, 9, 10, 12,	111017	15, 16, 23 Screw (6-40 x 5/16 Fil) 2, 3, 19	145372 145373	Shaft 18 Gear (66 T) 18
••••	13, 15, 19, 21, 23	111343	Clamp 9	145374	Gear (47 T) 18
3599	Nut (4-40 Hex) 2, 14, 16	111516	Washer, Flat 5	145375	Gear (63 T) 18
3606	Nut (6-40 Hex) 3, 4, 13, 15,	111767	Washer, Flat 13	145376	Gear (48 T) 18
	19, 20	112626	Nut (10-32 Hex) 6, 10	145381	Washer, Thrust 18
3624	Washer, Flat 16	112627	Nut (2-56 Hex) 16	145383	Key 18
3640 3870	Washer, Lock 2, 5, 9, 14, 22	112630	Spring 2	145384	Pin, Guide 18
4702	Spring 5, 8, 10 Spring 10	112663 114876	Screw, Shoulder (6-40) 19 Washer, Flat 15	145385 145386	Spring, Compression 18 Sleeve 19
6968	Washer, Flat 18	115122	Washer, Felt 10, 13	145389	Shaft, Idler 18, 19
6970	Nut (3/8-32 Hex) 18	115141	Screw, Shoulder (6-40) 15	145390	Pinion (25 T) 18
7002	Washer, Flat 2, 3, 5, 7, 8, 10,	116783	Holder, Fuse 21	145392	Post 18
	13, 14, 15, 16, 19, 21, 22, 23	117416	Post 10	145393	Bushing 18
7603	Spring 13	117608	Nut, Speed 7	145394	Knob 19
8330 8449	Washer, Flat 18 Spacer (.094") 5, 13	118384 118759	Lens, Clear Indicator Light 7 Block, Terminal 21	145397 145398	Bracket 19 Shaft, Flexible 19
22746	Spring 15	119648	Ring, Retaining 12, 16	145399	Shaft W/Gear 19
36273	Washer, Flat 19	119650	Ring, Retaining 8	145403	Gear W/Link (36 T) 19
41720	Spring, Contact 22	119651	Ring, Retaining 2, 7, 12, 13	145406	Bracket, Front 19
41732	Plate, Clamp 22	119652	Ring, Retaining 10, 15, 19	145407	Bracket, Rear 19
42823	Washer, Flat 11	119653	Ring, Retaining 6, 15	145408	Link 19
45815 49420	Washer, Lock 5 Spring 8, 22	119654 119655	Ring, Retaining 8 Ring, Retaining 18	145412 145855	Cable Assembly 20, 24 Guide, Tape 4
70388	Spring 12	119662	Screw (6–40 Spl) 15	145856	Guide, Tape 4
74755	Washer, Felt 10	120824	Washer, Felt 11	150013	Disk, Adjusting 11
74805	Screw (10-32 x 3/4 Hex) 10	120870	Wick, Felt 12	150026	Lever, Shoe Release 11
75750	Washer, Insulating 21	121125	Washer, Spring 22	150029	Wick, Felt 11
76081	Washer, Flat 8, 15	121242	Clamp, Cable (1/8" ID) 2, 8,	150043	Shoe, Secondary Clutch 11
76099 76278	Washer, Flat 10 Bushing 4	121243	16, 19 Clamp, Cable (3/16" ID) 22	150044 150241	Shoe, Primary Clutch 11 Spring 11
76422	Spring 16	121244	Clamp, Cable (1/4" ID) 2	150411	Washer, Flat 15
76461	Washer, Flat 4	121248	Clamp, Cable (1/2" ID) 19	150440	Hub 4
76964	Pin, Cotter 16	121575	Screw (10-32 x 5/16 Hex) 3	150441	Gear (21 T) 4
76968	Screw, Set (6-32) 7	122245	Capacitor (43-48 MFD) 3	150507	Spring 15
79890	Screw (1/4-32 x 7/8 Hex) 4	124177	Washer, Lock 15	150710	Screw (6-40 x 1-1/4 Fil) 21
80581 81596	Spring 12, 13 Screw (10-32 x 1-3/8 Hex) 18	125011 125015	Washer, Flat 9, 10, 23 Washer, Flat 4, 7, 13	150923 150966	Washer, Felt 12, 13 Insulator (1–4) 2
81726	Terminal 22	125126	Screw (2-56 x 9/32 Fil) 14	150700	Capacitor (1/2 MFD) 21
82474	Terminal 24	125181	Screw (2-56 x 3/8 Fil) 2	150990	Washer, Felt 13
82547	Insulator (.094") 22	125247	Spring, Compression 16	150991	Washer, Felt 8, 10
82548	Insulator (.062") 22	125250	Spring 12	150992	Stud 5
86304	Spring 14	128271	Screw, Shoulder (6-40) 15	151036	Screw, Shoulder (4-40) 13
86742	Nut (4-40 Hex) 13	131099 138166	Terminal 20, 24	151045 151060	Bar, Space 7 Gear Set (60 WPM) 17
86959 88891	Bushing, Insulating 22 Spring 22	139564	Screw, Set (8-32) 19 Nut (3/8-32 Hex) 19	151060	Screw (4-40 x 5/32 Fil) 22
90606	Spring 5	139752	Screw (4-40 x 11/64 Hex) 9, 15	151075	Gear Set (75 WPM) 17
90679	Washer, Felt 13	142269	Fuse (3 Amp SL-BL) 21	151080	Washer, Flat 9
90790	Washer, Flat 18	145307	Plate, Nut 20	151100	Gear Set (100 WPM) 17
90791	Washer, Lock 14	145308	Bracket 20	151113	Strip, Mounting 2
93117	Washer, Lock 3, 5, 16	145309	Bracket 19	151118	Plate, Spacing 2, 3
97393 100657	Screw, Shoulder (6-40) 15	145310 145311	Base 2 Plate, Stop 19	151126 151130	Spacer (25/64" ID) 6 Pinion (14 T) 17
100657	Connector, Receptacle (2 Pt) 3, 20	173011	11016, 510p 17	131130	(17-1)

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Part	Description and	Part	Description and	Part	Description and
Number	Page Number	Number	Page Number	Number	Page Number
	•				
151131	Gear (96 T) 17	152766	Gear Set (67 WPM) 17	154092	Shaft 6
151132	Pinion (17 T) 17	152839	Spring, Latch 15	154094	Clamp 10
151133	Gear (93 T) 17	152893	Screw $(4-40 \times 1/4 \text{ Hex}) 9$	154095	Eccentric, Contact Box 14
151134	Pinion (20 T) 17	153252	Link 2	154096	Bushing, Eccentric 10
151135	Gear (84 T) 17	153455	Resistor (600 Ohm) 21	154101	Plate, Rear 10
151146	Strap, Mounting 2, 3	153484	Screw (6-32 Spl) 21	154102	Plate, Rear 13
151152	Screw $(4-40 \times 3/16 \text{ Hex}) 9, 10,$	153538	Screw (6-40 \times 7/16 Hex) 5	154105	Post, Transfer Bail 12
	14, 15, 16, 23	153539	Screw (6-40 x 11/16 Hex) 5	154106	Bracket 2
151171	Toggle, Contact 14	153799	Screw (4-40 x 21/64 Hex) 15	154117	Bail, Space Bar 7
151180	Link, Toggle 14	153817	Screw $(4-40 \times 3/8 \text{ Hex}) 2, 14$	154119	Bracket Space Bar 7
151182	Washer, Insulating 14	153841	Screw (6-40 x 9/16 Hex) 2, 10	154120	Lever, Code Bar 8
151223	Screw, Shoulder (4-40) 7	154000	Base 2	154121	Lever, Space 8
151224	Screw, Pilot (6-40) 7	154001	Bar, Code (#1) 8	154122	Lever, Keyboard Lock 8
151228	Bracket W/Bearing 6	154002	Bar, Code (#2) 8	154123	Lever, Function 8
151245	Washer, Felt 19	154003	Bar, Code (#3) 8	154124	Lever, Repeat and Keyboard
151329	Switch, Sensitive 2	154004	Bar, Code (#4) 8	154105	Unlock 8
151335	Stud 2, 3, 19, 21	154005	Bar, Code (#5) 8	154125	Spring 8
151346	Screw (6-40 x 3/8 Fil) 6, 18	154008	Guide, Code Bar 8	154127	Nut (6-40 Hex) 13
151411	Block, Terminal 3, 19	154009	Plate, Front 12	154129	Bar, Clutch Trip 8
151412	Insulator (1-9) 3, 19	154010	Bail, Transfer 12	154130 154131	Box, Contact 14
151415	Block, Terminal 2	154013	Bracket, Spring 8	154131	Cover, Contact Box 14
151416 151442	Nut (6-40 Hex) 2, 3, 19 Screw (6-40 x 1/2 Hex) 4, 10,	154014	Post, Guide 12	154140	Washer, Felt 11
131442	22	154015 154016	Post 13 Shaft 8	154154	Bail, Locking 12 Cam, Signal Generator 11
151572	Washer, Lock 3	154018	Post, Locking Bail 12	154156	Grommet, Rubber 20, 24
151610	Washer, Flat 18	154019	Follower, Eccentric 11	154165	Box Assembly, Contact 14
151626	Terminal 3, 16, 20, 21, 24	154021	Link 7	154166	Suppressor, Arc 14
151630	Screw (6-40 x 1/4 Hex) 2, 3, 4,	154023	Latch, Lock Bar 8	154173	Plate 20, 24
131000	5, 7, 8, 18, 19, 21, 22	154025	Plate, Adjusting 13	154178	Spring 12
151631	Screw (6-40 x 5/16 Hex) 2, 3,	154027	Bellcrank 13	154179	Bail, Universal 9
	4, 6, 7, 8, 10, 15, 16, 18, 22	154029	Wick, Felt 11	154183	Blade, Front 9
151632	Screw (6-40 x 3/8 Hex) 2, 4,	154030	Shaft 11	154184	Blade, Rear 9
	14, 18, 19, 20, 21, 22	154032	Sleeve, Gear 11	154189	Insulator 14
151637	Screw (4-40 x 1/4 Fil) 2, 15	154033	Lever, Clutch Latch 10	154190	Filter, R.F. 14
151642	Screw (6-40 x 3/4 Fil) 4	154034	Lever, Clutch Stop 10	154191	Spring 13
151657	Screw (6-40 x 1/4 Fil) 22	154036	Plate, Detent 12	154194	Base 14
151658	Screw (6-40 x 5/16 Fil) 18, 20	154037	Lever 6	154197	Plug, Button 7
151659	Screw (6-40 x 1/2 Fil) 7, 15	154039	Bracket 2	154199	Shim (.005") 2
151678	Screw, Pilot (1/4 - 32) 2	154040	Lever, Transfer 12	154201	Shim (.014") 2
151685	Screw (4-40 x 5/16 Fil) 15	154041	Post, Stop 12	154210	Bracket, Left 7
151686	Screw (4-40 x 3/8 Fil) 16	154042	Terminal 14	154211	Bracket, Right 7
151690	Screw (10-32 x 5/16 Fil) 4	154043	Terminal 14	154212	Frame, Front 7
151692	Screw (6-40 x 3/16 Fil) 16	154045	Screw (6-40 Spl) 14	154215	Spring 13
151693	Screw (6-40 x 9/16 Fil) 4	154046	Stud 10	154217	Wick, Leather 12
151695	Screw (6-40 x 5/8 Hex) 4	154047	Post, Spring 12	154225	Box Assembly, Contact 14
151712	Button, Pivot 6, 20	154051	Screw, Shoulder (6-40) 13	154226	Box W/Strap 14
151721	Screw (6-40 x 3/4 Hex) 23	154052 154053	Bar, Locking 8	154236 154237	Lever, Latch 10 Lever, Non-Repeat 13
151722	Screw (6-40 x 3/16 Hex) 8, 12, 21	154056	Bail, Clutch Trip 10 Bracket, Contact Box 14	154238	Extension 9
151723	Screw (10-32 x 3/8 Hex) 2, 4,	154059	Bracket, Function Bail 6	154239	Extension W/Post 9
131723	5	154066	Lever 6	154240	Bail, Code Bar 13
151724	Screw (10-32 x 5/8 Hex) 6	154068	Bracket, Right Guide 8	154241	Stud 13
151725	Screw (10-32 x 3/4 Fil) 6	154069	Bracket, Left Guide 8	154350	Modification Kit 13
151728	Spring 11	154070	Guide, Code Lever 8	154386	Plate, Adjusting 13
151731	Screw (4-40 x 7/8 Fil) 16	154071	Screw, Pilot (1/4–32) 8	154662	Spacer 6
151733	Screw (4-40 x 9/16 Fil) 5, 22	154076	Plate, Nut 2, 21	154663	Shaft 6
151737	Screw (4-40 x 11/16 Hex) 11	154079	Stud 13	154694	Disk, Clutch Cam 11
151818	Jumper (4-1/4" Black) 3	154080	Lock, Wedge 8	155750	Sleeve, Insulating (3/32 ID x
151819	Jumper (3" Black) 3, 21	154081	Plate, Retainer 9	155753	1/2" Lg) 24
151820	Spring, Contact 14	154083	Spacer, Cam 11	155751	Sleeve, Insulating (1/8 ID x 1"
151827	Strap, Terminal 3, 19	154084	Bearing 13	16655	Lg) 24
151843	Screw, Adjusting (6-40) 9	154085	Plate 2	155752	Sleeve, Insulating (5/64 ID x
151880	Nut (4-40 Hex) 14, 15	154086	Retainer, Wedge 9	155750	1/2" Lg) 24
152045	Guard, Gear 2	154087	Plate, Nut 2	155753	Sleeve, Insulating (1/8 ID x
152760	Stud 21 Gear (81 T) 17	154088 154089	Plate, Nut 2 Post, Spring 13	155754	1/2" Lg) 5, 24 Sleeve, Insulating (1/16 ID x
152764 152765	Pinion (13 T) 17	154089	Guide 13	100/04	1/2" Lg) 24
132763	1 mon (13 1) 1/	134071	Colde 15		-/8/

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Part	Description and	Part	Description and	Part	Description and
Number	Page Number	Number	Page Number	Number	Page Number
155755	Sl	150005	C (04.T) 17	1 ((070	
155755	Sleeve, Insulating (11/64 ID x	159285	Gear (84 T) 17	164379	Cable 22
155051	5/8" Lg) 24	159287	Retainer, Pinion 17, 18	164485	Bail 10, 22
155951	Spring, Torsion 16	159327	Washer, Flat 13	164565	Container, Tape 5
155952	Pin 16	159334	Washer, Insulating 13	164590	Connector, Plug (24 Pt) 24
155953	Stud 16	159340	Spring, Return 15	164644	Post 22
155954	Switch, Micro 16	159431	Lever, Main Trip 4, 18	164645	Post 22
155956	Bail W/Bar 16	159542	Connector, Receptacle (16 Pt)	164646 164647	Plate, Nut 22 Bracket 22
155957	Bracket 16	140207	2, 24	164649	Plate, Mounting 22
155958	Keylever 16	160307	Diode 3	164651	Bail, Armature 22
155959 155960	Keytop 16	161215 161239	Lamp, Neon (110 V) 7	164652	Bar, Universal 22
155964	Latch 1,5 Lever, Stop 15	161293	Connector, Plug (36 Pt) 24	164656	Bar, Clutch Trip 22
155965	Ratchet (88 T) 15	161273	Gear Set (60 WPM) 17 Gear Set (75 WPM) 17	165656	Cable Assembly 24
155966	Drum, Ratchet 15	161274	Gear Set (100 WPM) 17	165659 165660	Insulator (.062") 21
155967	Washer, Spring 15	161301	Post 17	165661	Cable W/Terminals 21
155968	Washer, Flat 15	161346	Washer, Felt 12	165662	Stud 21
155969	Bracket 15	161826	Plate 5	165663	Insulator (1–10) 21
155991	Keytop Assembly 16	161831	Washer, Spring 4	165676	Cap (Green) 7
155992	Cable Assembly 16	161878	Cable Assembly 24	165678 165679	Lamp (55 V) 7 Cable Assembly 24
155994	Insulator (.015 ¹¹) 16	161891	Plate, Keytop Guide 7	165680	Bracket, Fuse Holder 21
156226 156448	Hub 4 Bushing 5	161892	Cable Assembly 24	165681	Bracket, Mounting 21
156449	Lever, Switch 5	161895	Shaft 4	165682	Bracket 21
156450	Screw (2-56 x 1/2 Fil) 16	161896	Gear (33 T) 4	170324	Bracket 8
156451	Bushing 5	161897	Gear (33 T) 4	170385	Frame 10
156503	Wick, Felt 11	161899	Spacer 4	170386	Guide 12
156509	Washer, Flat 12	161900	Bracket, Gear Guard 4	170391	Guide 12
156156	Latch 12	161901	Bracket, Gear Guard 4	172721	Cable Assembly 24
156574	Post, Spring 9	161902	Plate 4	173096	Stud, Eccentric 13
156630 156632	Washer, Felt 12	161903	Bracket 3	173396	Cable Assembly 24
156644	Screw (6-40 x 13/32 Hex) 7, 15 Link, Drive 14	161904	Plate, Nut 3	173793	Gear (100 T) 17
156663	Insulator 14	161905 161906	Bracket 3	173794	Pinion (14 T) 17
158019	Baffle, Character Counter 15	161907	Plate 7 Plate 7	173795	Gear Set (65 WPM) 17
158021	Bracket, Switch 15	161908	Post, Supporting 3	173922	Cable Assembly 24
158031	Bail, Feed 15	161909	Socket, Lamp 7	173974	Screw (10-32 s 5/16 Hex) 3
158032	Bail, Reset 15	161910	Cap (Ámber) 7	174250	Pin, Roll 18
158033	Spacer 15	161911	Knob (Black) 7	174491	Modification Kit: To Provide
158036	Lever, Reset 15	161912	Switch (SP-ST) 7		R.F. Suppression Filter 14
158038	Lever 15	161925 161926	Guide, Tape 4 Guide, Tape 4	176406	Bracket 16
158040	Lever, Ratchet Drive 15	161927	Guide, Tape 4	176407	Lever 16
158042	Lever, Latch 15	161932	Cap (Red) 7	178306	Relay, Power 21
158045	Stud 15	161942	Plate 3	178535	Suppressor, Spark 21
158046	Bracket, Counter Scale 15	161950	Bracket 2	178725	Spring 15
158047	Scale, Counter 15	161951	Bracket 4	178726	Bracket, Spring 15
158050	Switch, Contact 15	161954	Socket, Lamp 7	178728	Modification Kit: To Improve
158051	Pulley, Indicator Cord 15	161957	Lamp (6 V) 7		Character Counter Mechanism
158052	Cam, Switch 15	161964	Clamp, Tube 3	170000	15
158053 158054	Clamp, Ratchet Drum 15	161965 162333	Resistor (1000 Ohm) 3	178839	Nut (11/32-32 Hex) 7
158054	Cord Assembly 15		Stud, Locating 6	178849	Cord Assembly 15
158063	Cord, Reset 15	162659 163368	Retainer 18 Camsleeve 11	178851 179258	Pulley 15
158105	Bracket, Stop 8 Bar, Carriage Return Code 8	163440	Gear (48 T) 6	179278	Bracket, Scale 15
158103	Bar, Character Counter Code 8	163442	Cable Assembly 5	179279	Drum, Ratchet 15
158147	Bushing, Eccentric 15	163459	Gear (66 T) 4	192681	Bracket 15
158163	Switch, Sensitive 3, 5	163460	Gear (55 T) 6	192797	Screw (4–40 Spl) 9 Chute, Chad 23
158215	Plate, Nut 2, 3, 15, 21	163461	Pinion (18 T) 17	192798	Plate, Mounting 23
158239	Lever, Tape 5	163462	Gear (117 T) 17	192999	Modification Kit 23
158268	Latch W/Hub 13	163463	Pinion (24 T) 17	193560	Bag, Chad (10" Lg) 23
158289	Reel, Tape 5	163464	Gear (104 T) 17	193561	Casing, Fan Wheel 23
158745	Clamp, Bearing 4, 18	163503	Gear (26 T) 4	193579	Clamp, Tube 23
158753	Armature 22	163504	Gear Set (71 WPM) 17	193644	Bag, Chad (30" Lg) 23
158754	Core, Magnet 22	163505	Gear Set (107 WPM) 17	193654	Clamp, Armature 22
158859	Post, Spring 22	163519	Sleeve, Gear 11	193715	Spring, Contact 22
159278	Pinion (14 T) 17	163522	Transformer 3	193718	Bracket, Contact 22
159279	Gear (96 T) 17	163590	Gear (60 T) 4	193719	Contact Assembly 22
159281	Pinion (17 T) 17	163647	Channel, Ball 9	193800	Modification Kit 22
159282	Gear (93 T) 17	163813	Plate 16	195186	Screw (4-40 x 7/8 Hex) 14
159284	Pinion (20 T) 17	163814	Lever W/Hub 16	195403	Tubing (7-1/2" Lg) 23
	,		•		3 (, = -3, =-

28 ELECTRICAL SERVICE UNIT (LESU) for

REPERFORATORS

PARTS

FIGURE	CONTENTS	PAGE
1	Electrical Service Unit (LESU)	2
2	152623 Line Relay Mounting Assembly	3
3	152950 and 162361 Rectifier Assemblies	4
4	153251 Motor Control Assembly	5
5	176448 Relay Motor Control Assembly	6
6	177010 Selector Magnet Driver Assembly	7
7	Early Design LESU Parts	8
8	179426 Plate Assembly	8
9	176694 Motor Control Assembly	9
10	Cables	9
	Numerical Index	10

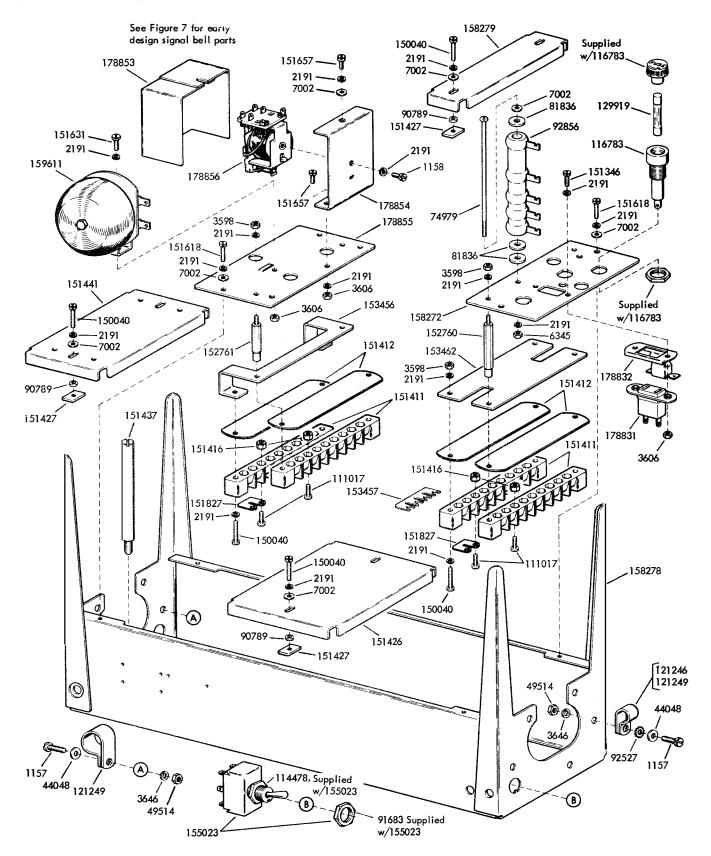


FIGURE 1. ELECTRICAL SERVICE UNIT (LESU)

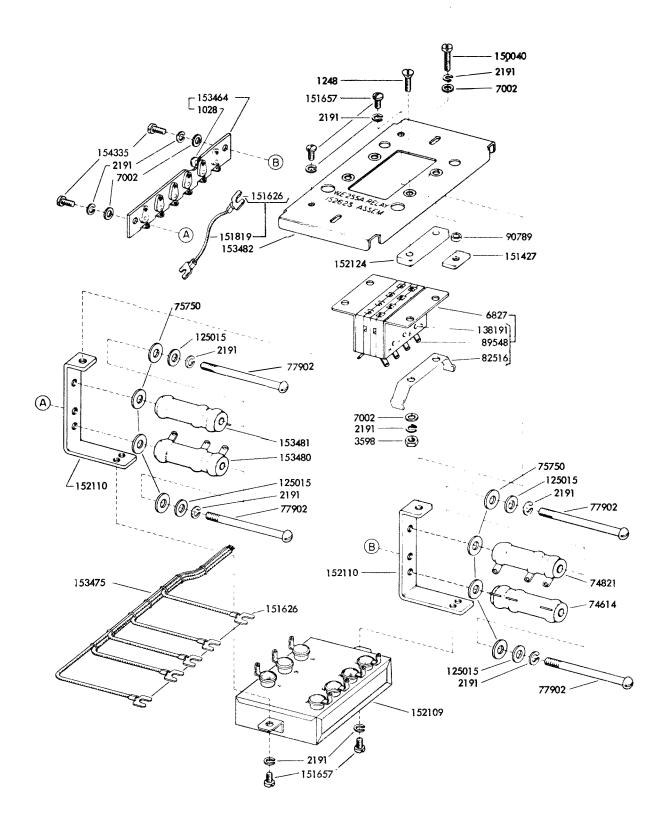
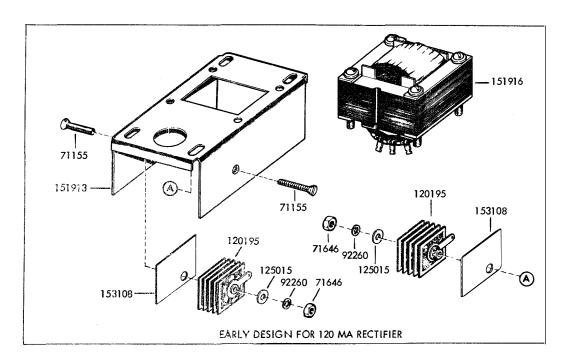


FIGURE 2. 152623 LINE RELAY MOUNTING ASSEMBLY



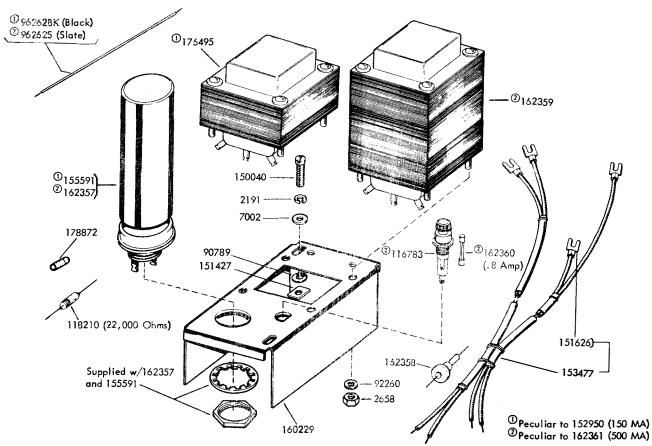


FIGURE 3. 152950 AND 162361 RECTIFIER ASSEMBLIES

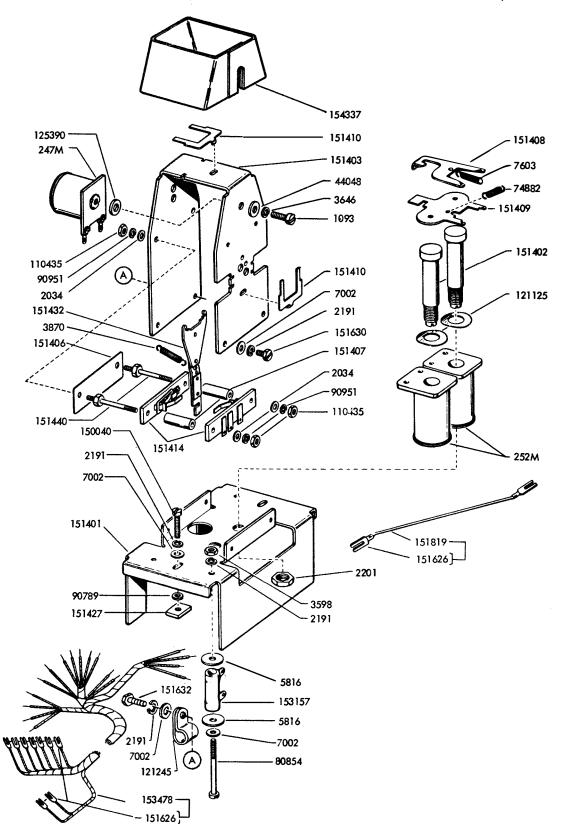


FIGURE 4. 153251 MOTOR CONTROL ASSEMBLY

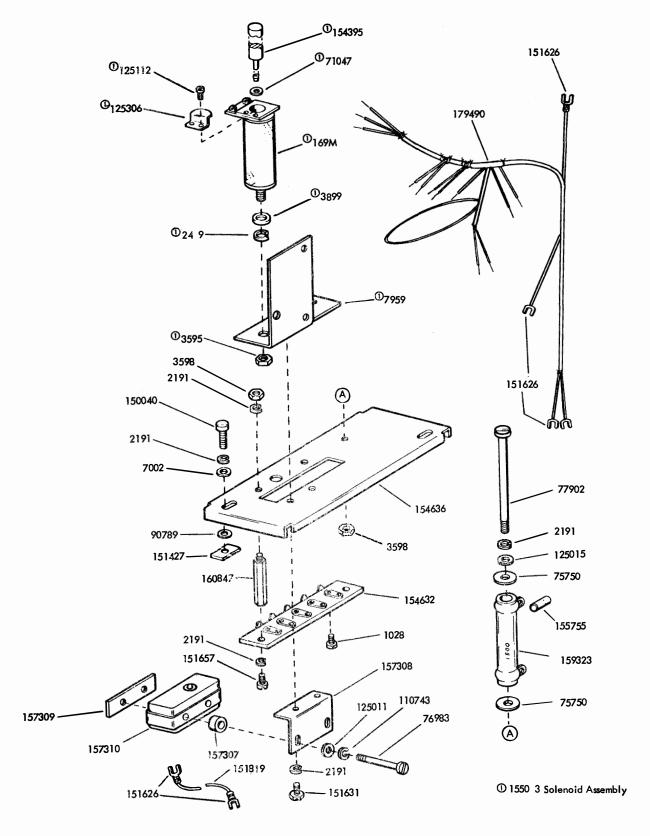


FIGURE 5. 176448 RELAY MOTOR CONTROL ASSEMBLY

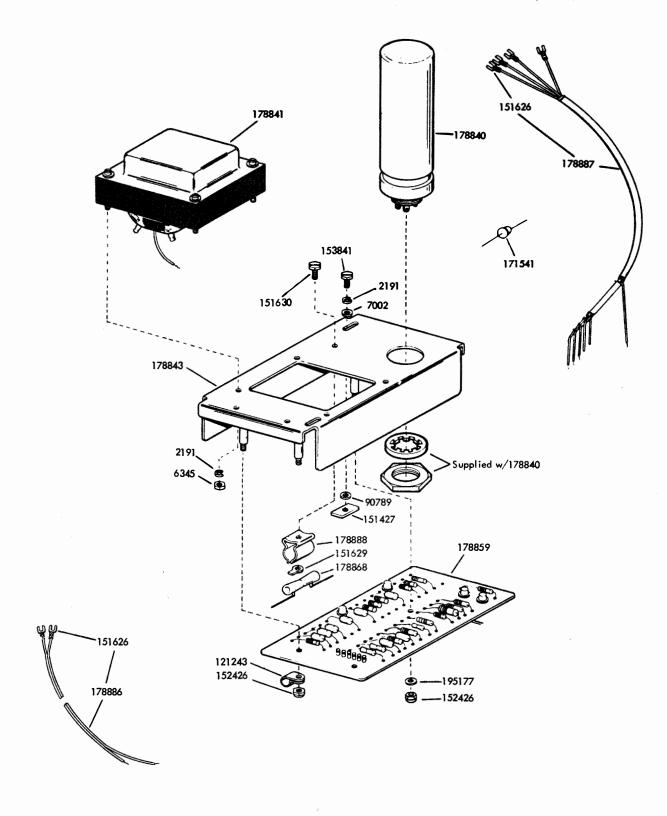
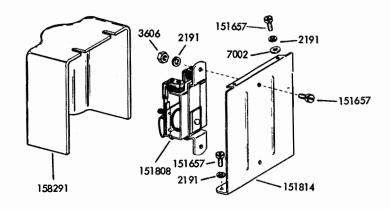


FIGURE 6. 177010 SELECTOR MAGNET DRIVER ASSEMBLY



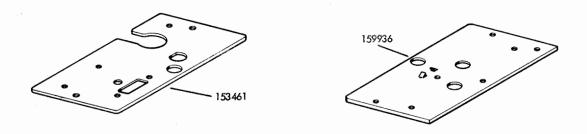


FIGURE 7. EARLY DESIGN LESU PARTS

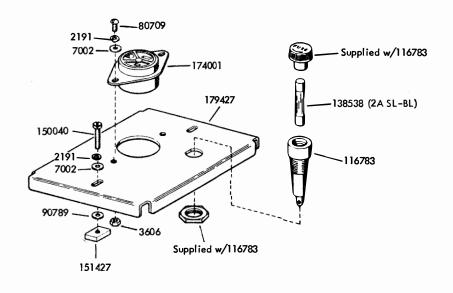


FIGURE 8. 179426 PLATE ASSEMBLY

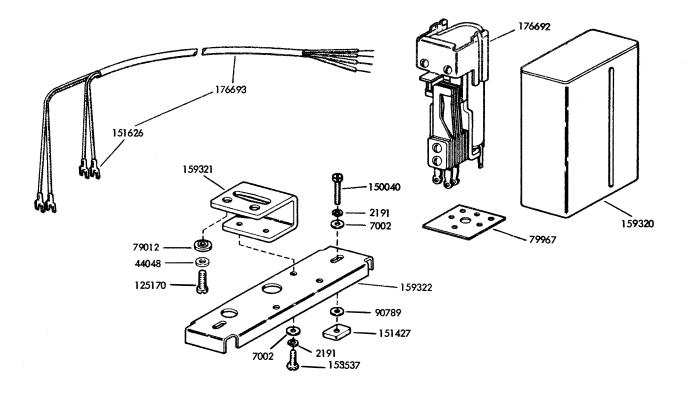


FIGURE 9. 176694 MOTOR CONTROL ASSEMBLY

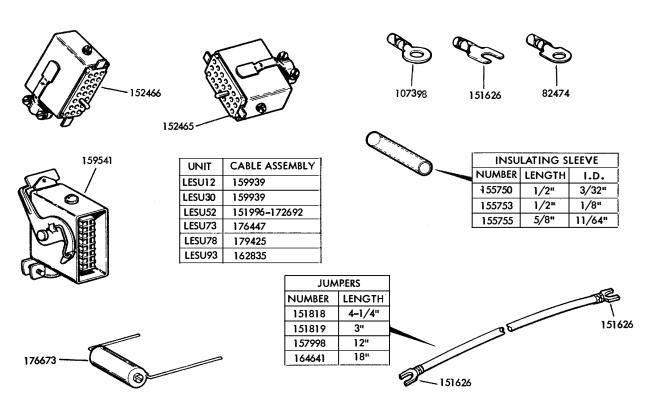


FIGURE 10. CABLES

NUMERICAL INDEX

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
169M	Coil, Mognet 6	125015	Washer, Flat 3, 4, 6	153482	Plate, Relay 3
	Coil, Magnet 5	125112	Screw, 2-56 x 1/8 Fil 6	153 53 7	Screw, 6-40 x 9/32 Hex 9
	Coil, Magnet 5	125170	Screw, 8-32 x 5/16 Fil 9	153841	Screw, $6-40 \times 9/16$ Hex 7
1028	Screw, 4-40 x 1/4 Fil 3, 6	125306	Stop, Magnet Plunger 6	154335	Screw, 6-40 x 9/32 Fil 3
1093	Screw, 8-32 x 7/16 Fil 5	125390	Washer, Flat 5	15 4 3 3 7	Cover 5
1157	Screw, 8-32 x 1/2 Fil 2	129919	Fuse, 4 Amp 2	154395	Plunger, Solenoid 6
1158	Screw, 6-32 x 5/16 Fil 2	138191	Screw, 3-48 x 1 Rd 3	154632 1546 3 6	Block, Terminal 6 Plate 6
1248 2034	Screw, 6–40 x 1/2 Flat 3 Washer, Flat 5	1385 3 8 1 50 040	Fuse, 2 Amp SL-BL 8 Screw, 6-40 x 5/8 Fil 2 to 6, 8, 9	155023	Switch, DP-DT Toggle 2
2191	Washer, Lock 2 to 9	151346	Screw, 6-40 x 3/8 Fil 2	155043	Solenoid Assembly 6
2201	Nut, 5/16-32 Hex 5	151401	Base 5	155591	Capacitor, 220 MFD 4
2449	Washer, Lock 6	151402	Core 5	155750	Sleeve, 3/32 ID x 1/2" Lg
2658	Nut, 6-32 Hex 4	151403	Frame 5		Insulating 9
3595	Nut, 1/4-32 Hex 6	151406	Plate, Insulating 5	155753	Sleeve, 1/8 ID x 1/2" Lg
3598	Nut, 6-40 Hex 2, 3, 5, 6	151407	Collar, Spacing 5	155755	Insulating 9
3606	Nut, 6-40 Hex 2, 8	151408	Lever 5	155755	Sleeve, 11/64 ID x 5/8" Lg Insulating 6, 9
3646 3870	Washer, Lock 2, 5	151409 151410	Armature 5 Clip, Retaining 5	157307	Spacer 6
3899	Spring 5 Spacer, . 188" Thk 6	151411	Block, Terminal 2	157308	Bracket 6
5816	Washer, Insulating 5	151412	Insulator 2	157309	Plate, Nut 6
6345	Nut, 6-32 Hex 2, 7	151414	Switch, Sensitive 5	157310	Switch, Sensitive 6
6 827	Block 3	151416	Nut, 6-40 Hex 2	157998	Jumper, 12" Lg B lac k 9
7002	Washer, Flat 2 to 9	151426	Plate, 3-3/4 Blank 2	158272	Plate, Right Mounting 2
7603	Spring 5	151427	Plate, Clamp 2 to 9	158278	Container 2
7959	Bracket, Magnet 6	151432	Armature 5	158279	Plate, 1-5/16 Blank 2
44048	Washer, Flat 2, 5, 9	151437	Stud 2	158291 1593 2 0	Cover, Relay 8 Cover, Relay 9
49514 71047	Nut, 8-32 Hex 2 Washer, Flat 6	151440 151441	Stud 5 Plate, 2-3/4 Blank 2	159321	Bracket, Relay 9
71155	Screw, 6-32 x 1-1/4 Flat 4	151618	Screw, 6-40 x 7/16 Fil 2	159322	Plate, Relay 9
71646	Nut, 6-32 Hex 4	151626	Terminal 3 to 7, 9	159323	Resistor, 1500 Ohm 6
74614	Resistor, 2600 Ohm 3	151629	Nut, 6-40 Lug 7	159541	Connector, 16 Pt Plug 9
<i>7</i> 4821	Resistor, 2810 Ohm 3	151630	Screw, 6-40 x 1/4 Hex 5, 7	159611	Bell 2
74882	Spring 5	151631	Screw, $6-40 \times 5/16 \text{ Hex } 2, 6$	159936	Plate, Left Mounting 8
74979	Screw, 6-32 x 3-3/4 Rd 2	151632	Screw, 6-40 x 3/8 Hex 5	159939	Cable Assembly 9
75750	Washer, Insulating 3, 6	151657	Screw, 6-40 x 1/4 Fil 2, 3, 6, 8	1602 2 9 160847	Plate, Mounting 4 Stud 6
76983 77902 -	Screw, 4-40 x 1-1/4 Fil 6	151808 151814	Relay 8 Bracket, Relay Mounting 8	162357	Capacitor, 500 MFD 4
79012	Screw, 6-40 x 2-3/8 Rd 3, 6 Insulator 9	151818	Jumper, 4-1/4" Lg Black 9	162358	Diode 4
79967	Insulator 9	151819	Jumper, 3" Lg Black 3, 5, 6, 9	162359	Transformer, Power 4
80709	Screw, 6-40 x 1/4 Rd 8	151827	Strap, Terminal 2	162360	Fuse, .8 Amp 4
80854	Screw, 6-40 x 1-7/16 Fil 5	151913	Plate, Mounting 4	162361	Rectifier Assembly, 500 MA 1, 4
81836	Washer, Insulating 2	151916	Transformer 4	162835	Cable Assembly 9
82474	Terminal 9	151996	Cable w/Terminals 9	164641 171541	Jumper, 18" Black 9
82516	Spring, Retaining 3	152109	Filter 3 Bracket, Resistor Mounting 3	172692	Diode 7 Cable Assembly 9
89548 90789	Spring, Contact 3 Washer, Flat 2 to 9	152110 152124	Spacer 3	174001	Connector, 3 Pt Receptacle 8
90951	Washer, Lock 5	152426	Nut 7	176447	Cable 9
91683	Nut, 15/32-32 Hex 2	152465	Connector, 20 Pt Receptacle 9	176448	Control Assembly, Relay Motor
92260	Washer, Lock 4	152466	Connector, 20 Pt Receptacle 9		1, 6
92527	Washer, Lock 2	152623	Mounting Assembly, Line Relay	176495	Transformer, Power 4
92856	Resistor, 1500 Ohm 2		1, 3	176673	Suppressor, Spark 9
	Jumper, 4" Lg Black 4	152760	Stud 2	176 6 92 176 6 93	Relay 9 Cable w/Terminal 9
962625	Jumper, 4" Lg Slate 4	152761 152950	Stud 2 Rectifier Assembly, 150 MA 1, 4	176694	Control Assembly, Motor 1, 9
107398 110 4 35	Terminal 9 Nut, 4-40 Hex 5	153108	Insulator, .031" Thk 4	177010	Driver Assembly, Selector
110743	Washer, Lock 6	153157	Resistor, 400 Ohm 5		Magnet 1, 7
111017	Screw, 6-40 x 5/16 Fil 2	153251	Control Assembly, Motor 1, 5	178831	Connector 2
114478	Nut, 15/32-32 Hex 2	153456	Bracket 2	178832	Plate, Adapter 2
116783	Holder, Fuse 2, 4, 8	153457	Strap, Terminal 2	178840	Capacitor, 400 MFD 7
118210	Resistor, 22,000 Ohm 4	153461	Plate, Right Mounting 8	178841	Transformer 7
120195	Rectifier 4	153462	Piate 2	178843 178853	Plate, Mounting 7 Cover, Relay 2
121125	Washer, Spring 5.	153464 153475	Block, Terminal 3	178854	Bracket, Relay 2
121243 1 212 45	Clamp, 3/16 ID Cable 7 Clamp, 5/16 ID Cable 5	153475 153477	Cable w/Terminals 3 Cable w/Terminals 4	178855	Plate, Left 2
121245	Clamp, 3/8 ID Cable 2	153478	Cable w/Terminals 5	178856	Relay 2
121249	Clamp, 5/8 iD Cable 2	153480	Resistor, 6750 Ohm 3	178859	Card, Circuit 7
125011	Washer, Flat 6	153481	Resistor, 5800 Ohm 3	178868	Resistor, 700 Ohm 7

NUMERICAL INDEX (Continued)

Part Number	Description and Page Number	Part Number	Description and Page Number	Part Number	Description and Page Number
178872	Sleeve, 1/16 ID x 1-1/4" Lg	178888	Clip 7	179427	Plate, Cover 8
	Insulating 4	179425	Cable Assembly 9	179490	Cable w/Terminals 6
178886	Cable w/Terminals 7	179426	Plate Assembly 1, 8	195177	Washer, Insulating 7
178887	Cable 7		•		•

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	SALE-LUBERT BOST TO SALERY BOST AND AN OWNER OF THE PROPERTY O		

Gray, Beige

Gray, Dark

Gray, Charcoal

Gray, Dark Covert

28 RECEIVING-ONLY REPERFORATOR OR TAPE PRINTER COVER (LRC), 28 SEND-RECEIVE REPERFORATOR OR TAPE PRINTER COVER (LSRC), and 28 REPERFORATOR OR TAPE PRINTER TABLE (LT)

PARTS

FIGUR		PAGE	FIGUR	e contents	PAGE
!	Non-Typing Reperforator Cover	2	9	Table (w/Full Door)	10
2	Receiving-Only Non-Typing		10	Table (w/Full Door - Continued)	11
	Reperforator Cover (Miniaturized)	3	11	Table with Fixed Lower Shelf	12
3	Receiving-Only Typing		12	Table with Sliding Lower Shelf	13
	Reperforator Cover (Miniaturized)	4	13	Table with Facilities for Tape Winder	14
4	Tape Printer Cover	5	14	176615** Modification Kit to Adapt	
5	Receiving-Only Typing Reperforator			Base and Table for Use with Fully	
	Cover	6		Perforated Punches	15
6	Send-Receive Cover	7	15	193684** Chad Disposal, Set of Parts	16
7	Tape Printer Sub-Base	8	.0	Numerical Index	17
8	Tape Printer Sub-Base	9		Tromerious macx	17

PAINT FINISH COLOR CODE CHART										
(For parts and assemblies requiring a paint finish)										
		Finish	Suffix			Finish Suffix				
COLOR	Wrinkle Finish	Smooth Finish	Textured Vinyl	Smooth Vinyl	COLOR	Finish Finis	Smooth Finish	Textured Vinyl	Smooth Vinyl	
Aluminum Aqua, Light Beige		FA ET EL		HK HC	Gray, Dark Metallic Gray, Federal Gray, Light Gray, Light Olive		BW B∨ EJ	GG GE	НВ	
Beige, Light Beige, Rose Black Black, High Gloss	AA	ER BA	GK	110	Gray, Maritime Engine Gray, Maritime		EW BY	GE	HF	
Black, Semi Gloss Blue, Aqua Blue, Brussels Light		BB EK EC			Deck Gray, Medium Gray, Oxford	AJ	BJ BS EP			
Blue, Medium Brown, Dark Brown, Light	AD AC	ES			Green, Gray Green, Moss Ivory	AB	BK EN EM	GA	HD HD	
Brown, Mahogany Fawn		EQ	GC	HG	Pink, Rose Red, Cherry		EU EF FV	!		

The double asterisk (**) denotes a painted part. Suffix to be applied following the part number.

GC

GF

GB

ΑL

BZ

FC

HA

ΗE

Turquoise

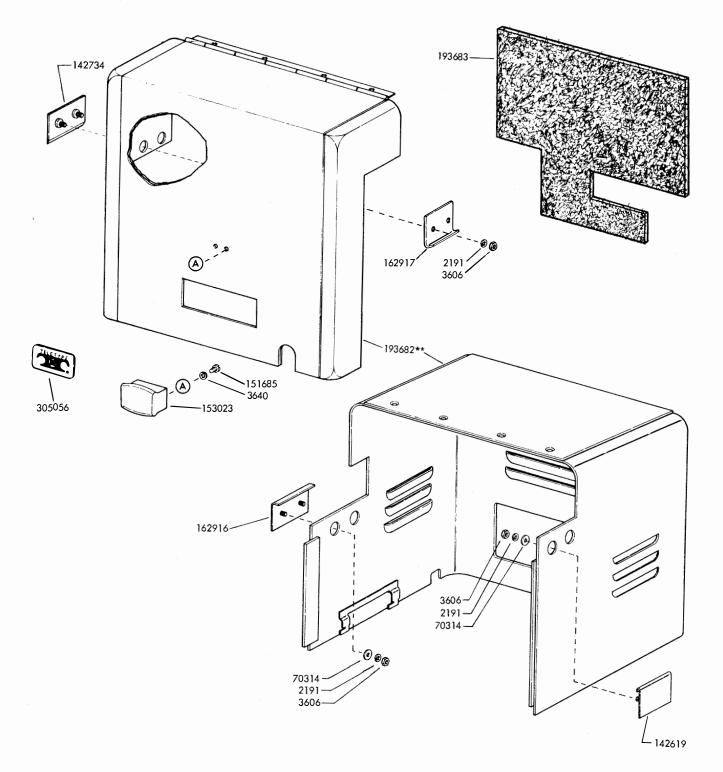
Yellow, Pastel

White

EV

EΗ

EG



** Refer to page 1 for finish suffix

FIGURE 1. NON-TYPING REPERFORATOR COVER

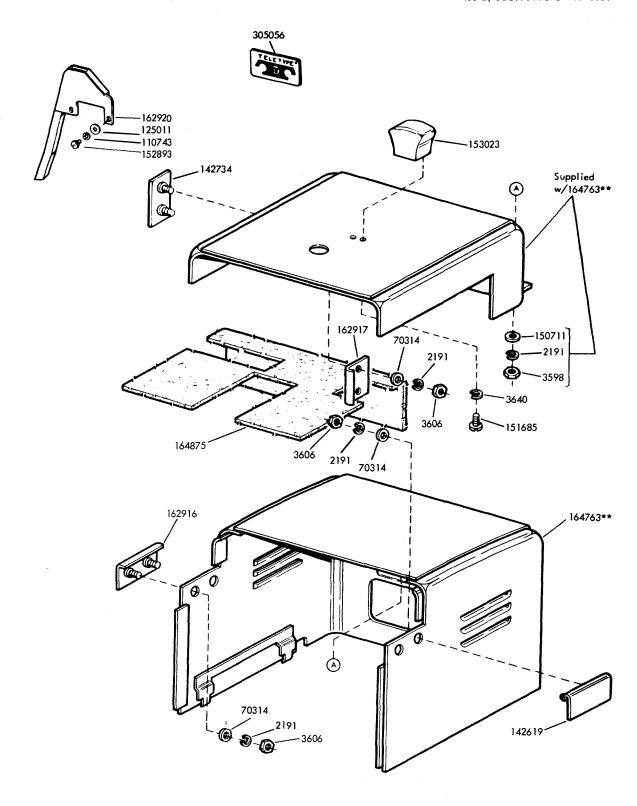


FIGURE 2. RECEIVING-ONLY NON-TYPING REPERFORATOR COVER (Miniaturized)

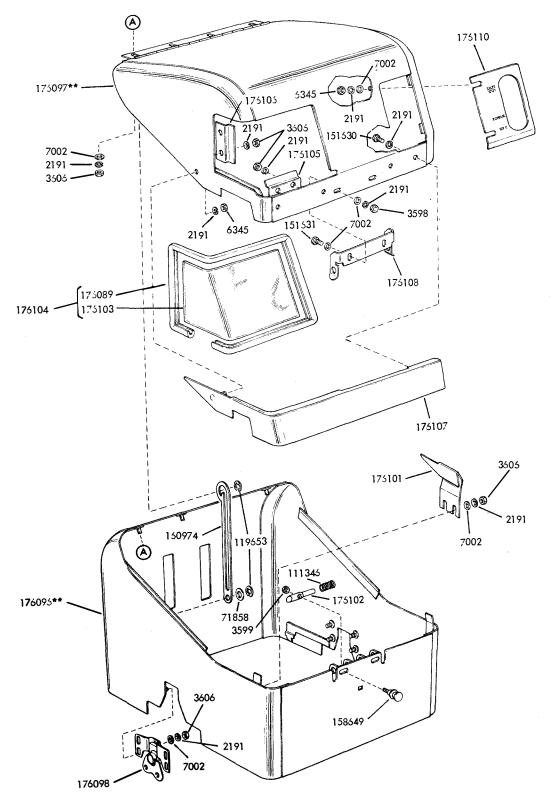


FIGURE 3. RECEIVING-ONLY TYPING REPERFORATOR COVER (Miniaturized)

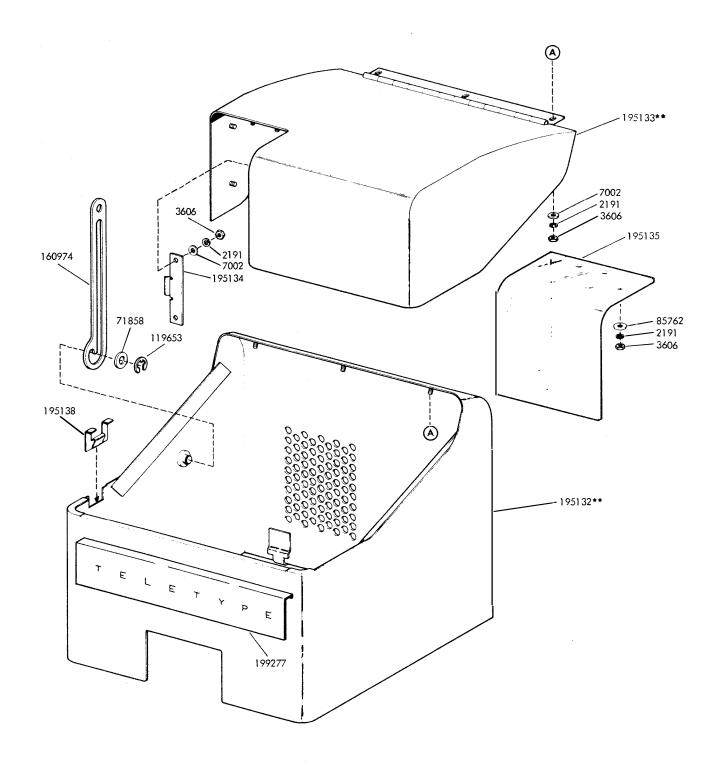


FIGURE 4. TAPE PRINTER COVER

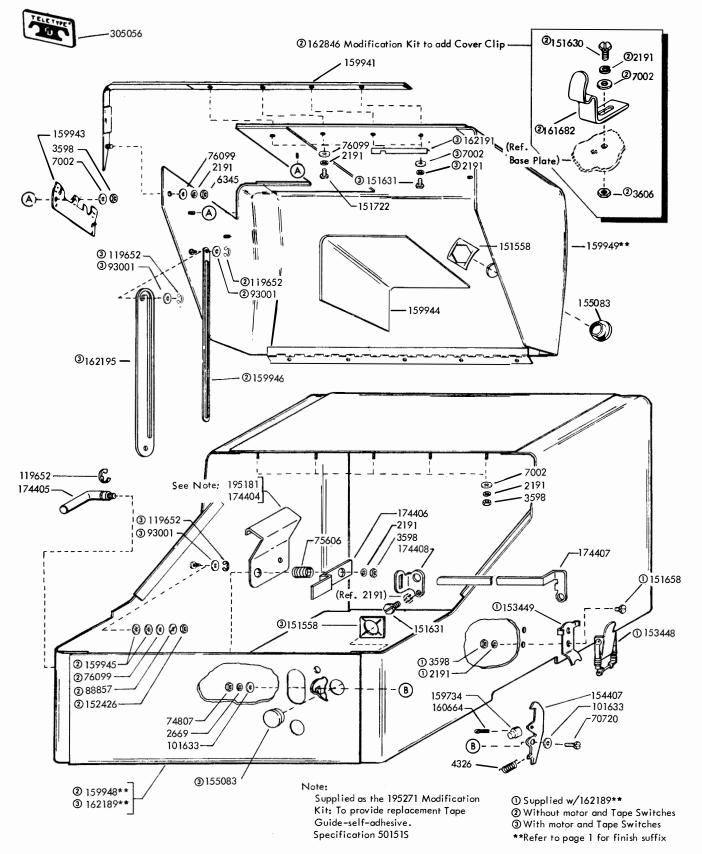


FIGURE 5. RECEIVING-ONLY TYPING REPERFORATOR COVER

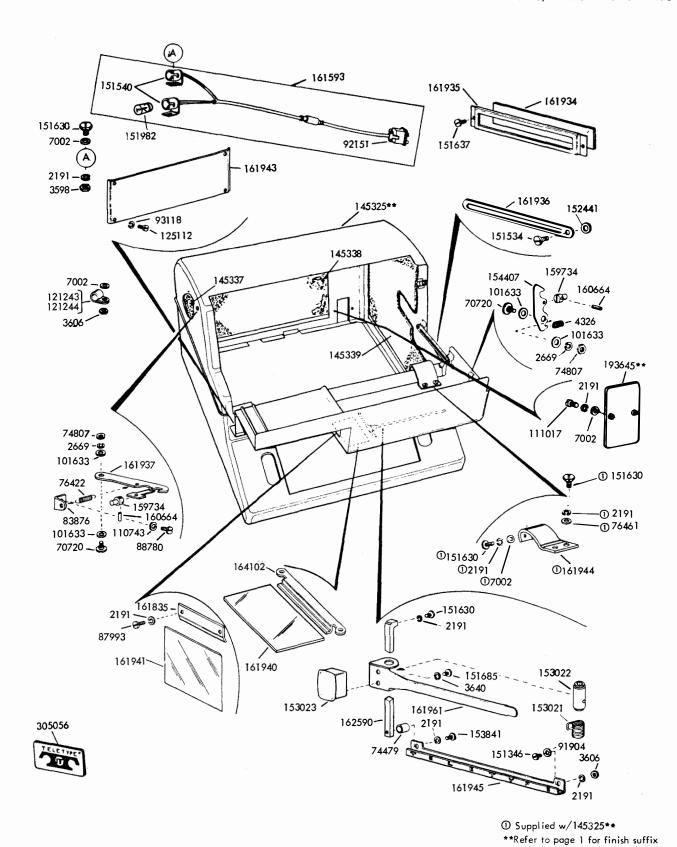
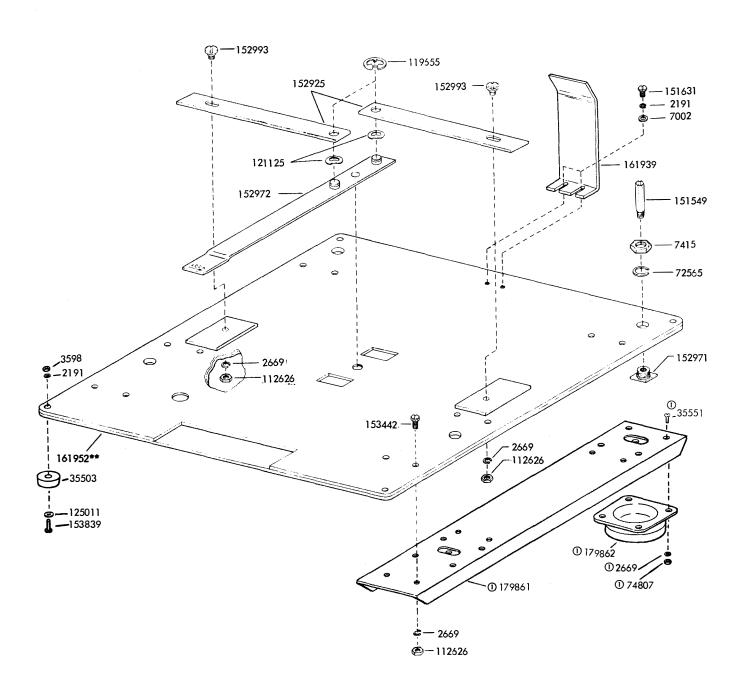
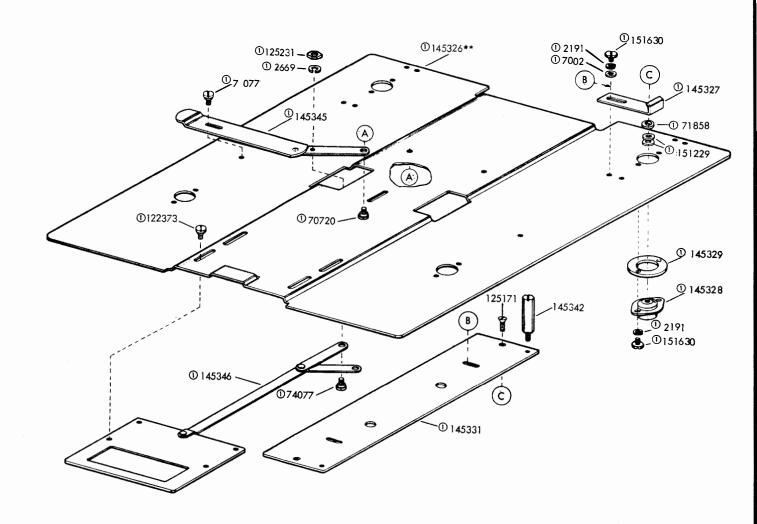


FIGURE 6. SEND-RECEIVE COVER



① 161949 Vibration Mount Assembly
**Refer to page 1 for finish suffix

FIGURE 7. TAPE PRINTER SUB-BASE



① 145340** Plate Assembly

**Refer to page 1 for finish suffix

FIGURE 8. TAPE PRINTER SUB-BASE

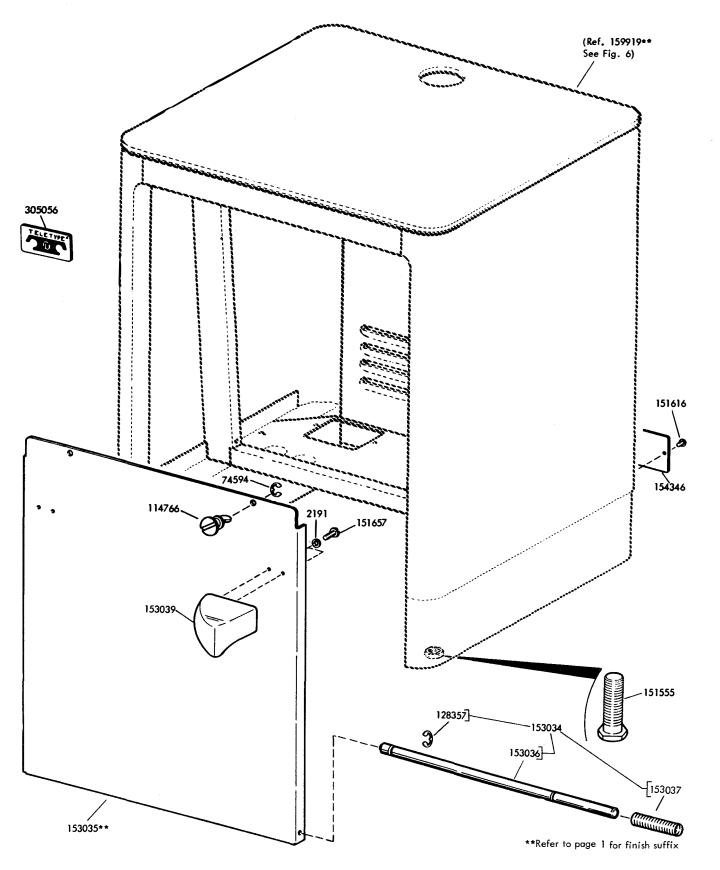


FIGURE 9. TABLE (w/Full Door)

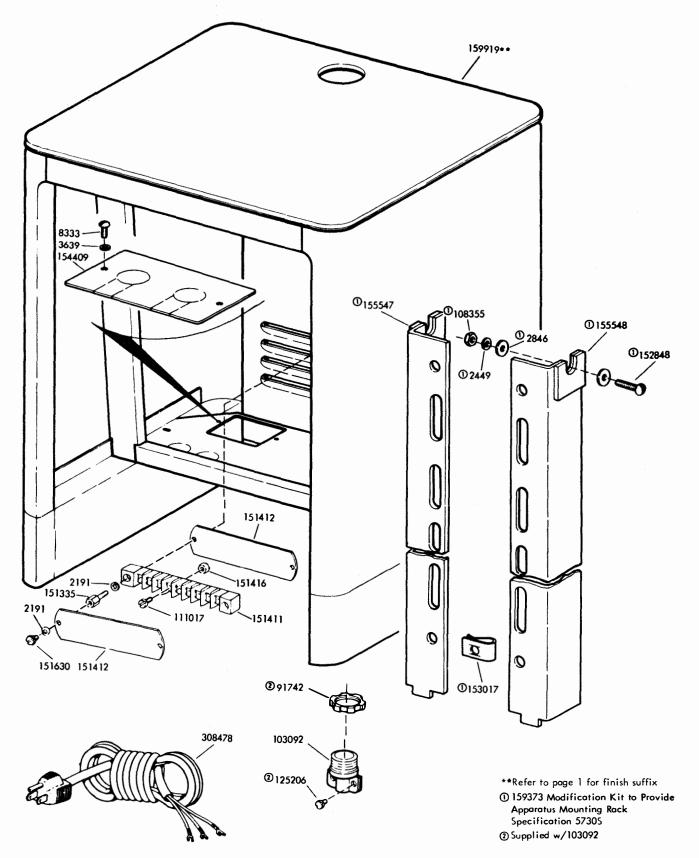


FIGURE 10. TABLE (w/Full Door - Continued)

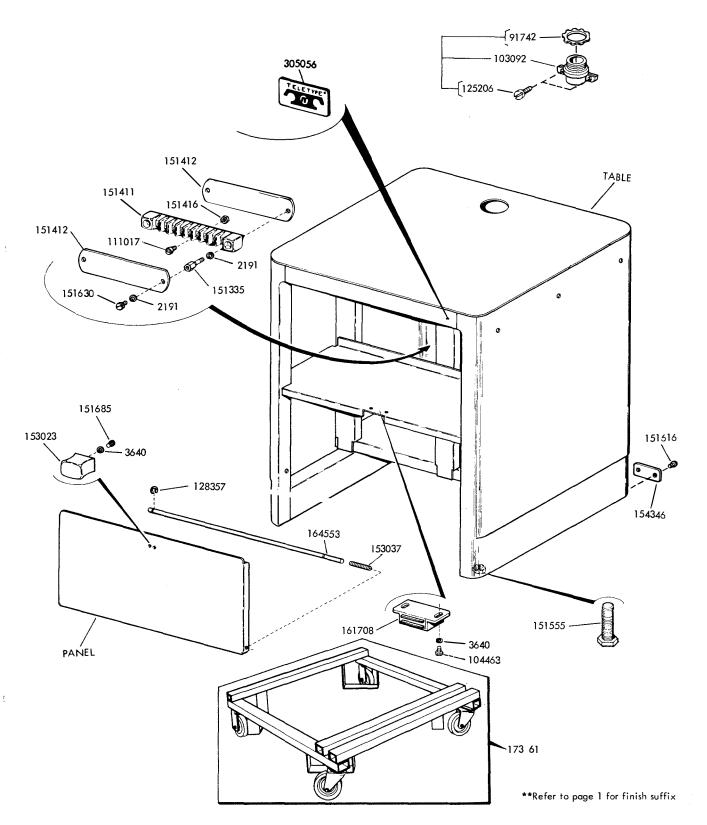


FIGURE 11. TABLE WITH FIXED LOWER SHELF

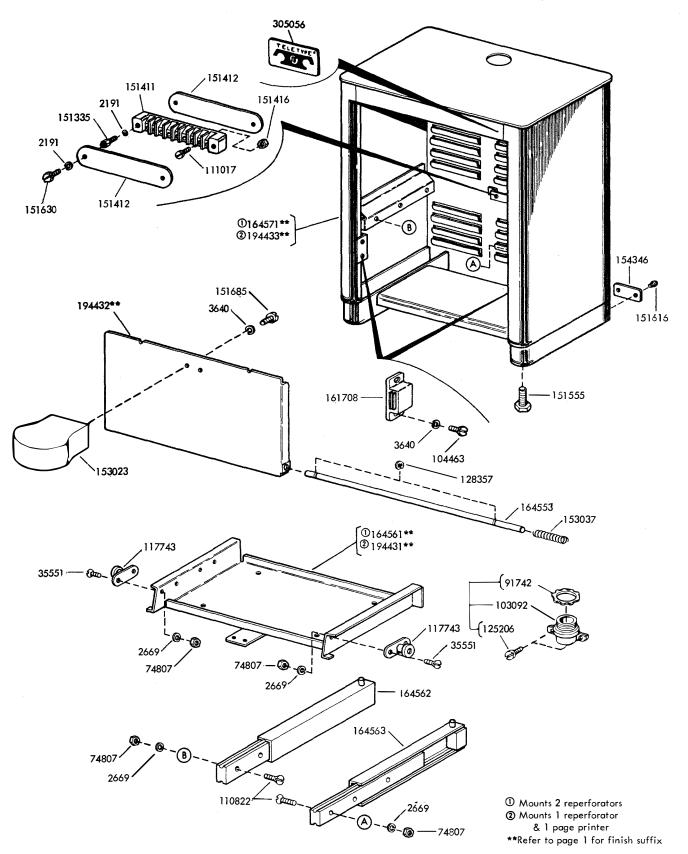


FIGURE 12. TABLE WITH SLIDING LOWER SHELF

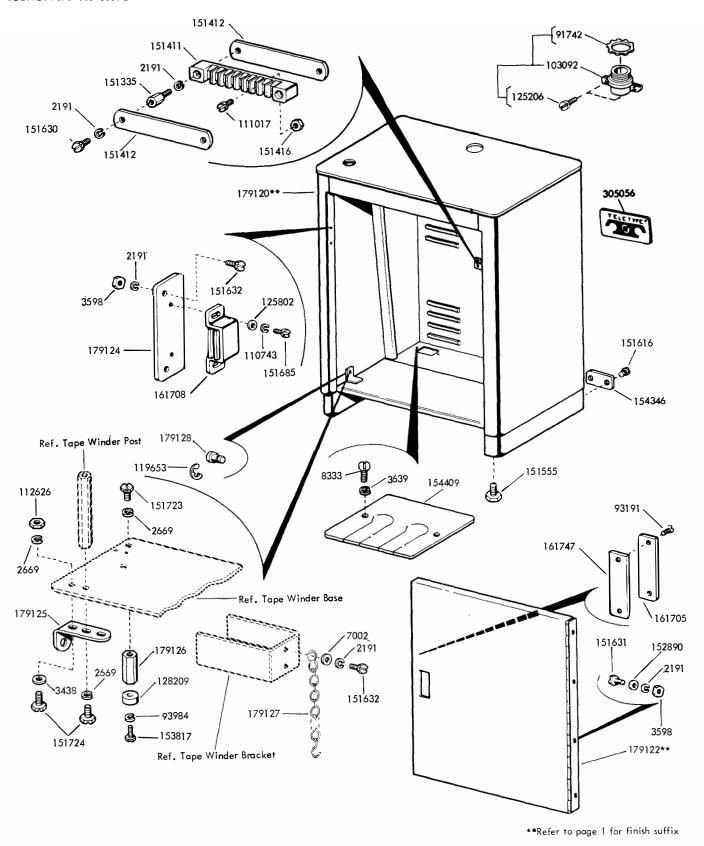


FIGURE 13. TABLE WITH FACILITIES FOR TAPE WINDER

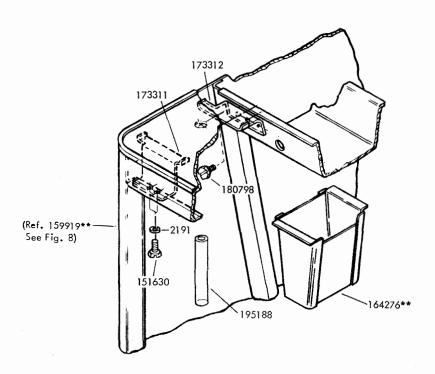


FIGURE 14. 176615** MODIFICATION KIT TO ADAPT BASE AND TABLE FOR USE WITH FULLY PERFORATED PUNCHES

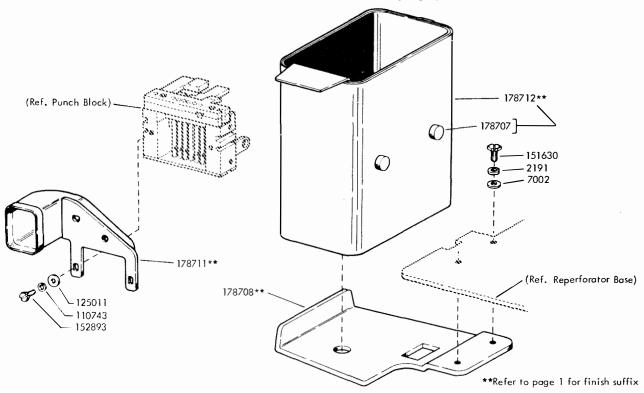


FIGURE 15. 193684** CHAD DISPOSAL, SET OF PARTS

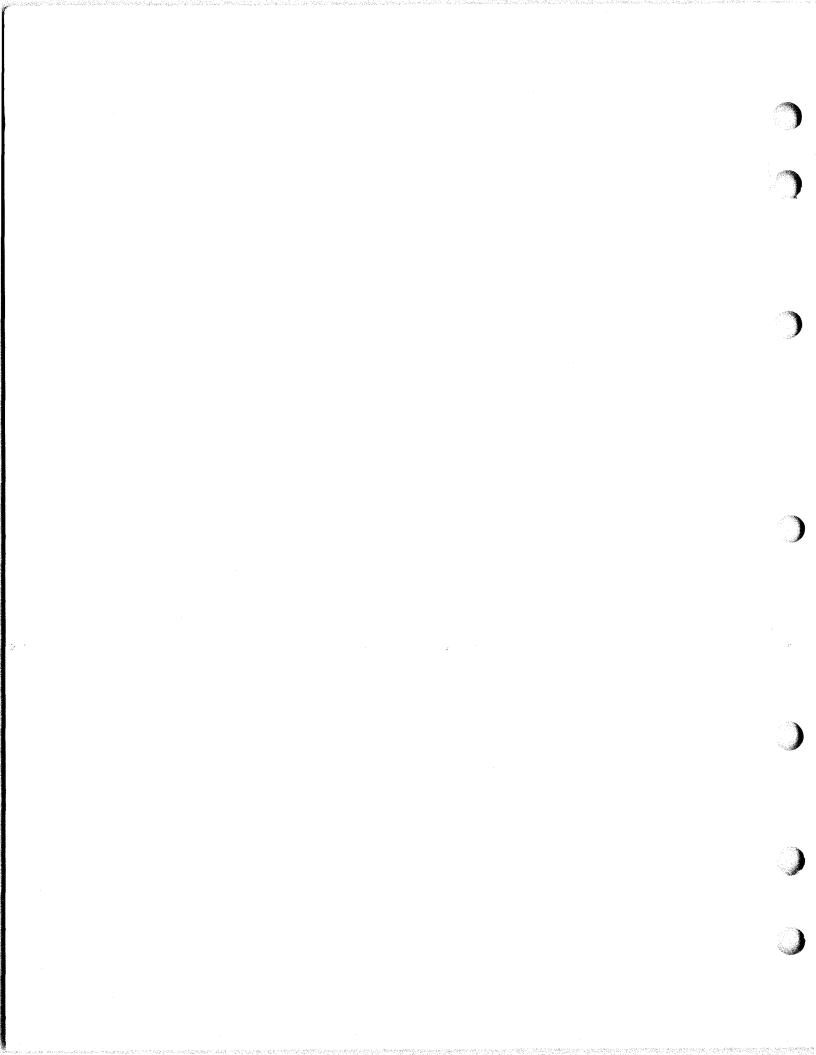
NUMERICAL INDEX

Part	Description and	Part	Description and	Part	Description and
Number	Page Number	Number	Page Number	Number	Page Number
2191	Washer, Lock 2 to 15	111017	Screw, 6-40 x 5/16 Fil 7,11,	15163 0	Screw, 6-40 x 1/4 Hex 4,6,
2449	Washer, Lock 11	11174	12,13,14	151/51	7, 9,11,12,13,14,15
2669	Washer, Lock 6,7,8,9, 13,14	1113 46 112626	Spring, Compression 4 Nut, 10-32 Hex 8,14	151631	Screw, 6-40 5/16 Hex 4,6, 8,14
2846	Washer, Flat 11	114766	Stud 10	151632	Screw, 6-40 x 3/8 Hex 14
3438	Washer, Flat 14	117743	Roller 13	151637	Screw, 4-40 x 1/4 Fil 7
3598	Nut, 6-40 Hex 3,4,6,7,8,	119652	Ring, Retaining 6	151657	Screw, 6-40 x 1/4 Fil 10
	14	119653	Ring, Retaining 4,5,14	151658	Screw, 6-40 x 5/16 Fil 6
3599	Nut, 4-40 Hex 4	119655	Ring, Retaining 8	151685	Screw, 4-40 x 5/16 Fil 2,3,
3606	Nut, 6-40 Hex 2,3,4,5,6,	121125	Washer, Spring		7,12,13,14
	7	121243	Clamp, 3/16 ID Cable 7	151722	Screw, 6-40 x 3/16 Hex 6
3639	Washer, Lock 11,14	121244	Clamp, 1/4 ID Cable 7	151723	Screw, 10-32 x 3/8 Hex 14
3640	Washer, Lock 2,3,7,12,13	122373	Screw, 6-40 Shoulder 9	151724	Screw, 10-32 x 5/8 Hex 14
4326	Spring, Compression 6,7	125011	Washer, Flat 3,8,15	151982	Lamp, 6V Incandescant 7
6345	Nut, 6-32 Hex 4,6	125112 125171	Screw, 2-56 x 1/8 Fil 7 Screw, 10-32 x 1/2 Flat 9	152426	Nut, 6-40 Self-Locking 6
7002	Washer, Flat 4 to 9,14,15	125206	Screw, 6-32 x 5/8 Fil 11,12	152441	Washer, Flat 7
7415	Nut, 1/2-32 Hex 8	123200	13,14	152848	Screw, 1/4-20 x 3/4 Rd 11
8333	Screw, 10-32 x 3/8 Rd 11,14	125231	Nut, 10-32 Hex 9	152890	Washer, Flat 14
35503	Foot, Rubber 8	125802	Washer, Flat 14	152893	Screw, 4-40 x 1/4 Hex 3, 15
35551 70314	Screw, 10-32 x 3/8 Flat 8,13 Washer, Flat 2,3	128209	Bumper, Rubber 14	152925	Latch 8
70720	Screw, 10-32 Shoulder 6,7,9	128357	Ring, Retaining 10,12,13	152971	Bushing 8
71858	Washer, Flat 4,5,9	142619	Guide, Tape 2,3	152972	Handle w/Studs 8
72565	Washer, Lock 8	142734	Knife, Tape 2,3,	152993	Screw, 10-32 Shoulder 8
74077	Screw, 10-32 Shoulder 9	145325**	Cover 7	153017	Nut, Speed 11
74479	Bushing 7	145326**		153021	Spring, Torsion 7
74594	Ring, Retaining 10	145327	Guide 9	153022	Bushing 7
74807	Nut, 10-32 Shoulder Hex 6,	145328	Mount, Vibration 9	153023	Handle 2,3,7,12,13
	7,8,13	145329	Spacer, .065" Thk 9	153034	Shaft Assembly 10
75606	Spring 6	145331	Strap 9	153035**	Panel 10
76099	Washer, Flat 6	145337	Pad, Left Side 7	153036	Shaft 10
76422	Spring 7	145338	Pad, Rear 7	153037	Spring 10,12,13
76461	Washer, Flat 7	145339	Pad, Right Side 7	153039	Handle 10
83876	Bracket, Spring 7		Plate Assembly 9	153442	Screw, 10-32 x 1/12 Hex 8
85762	Washer, Flat 5	145342	Screw, 1/4-32 Spl 9	153448	Catch 6
87993	Screw, 6-40 x 5/32 Fil 7	145345	Bolt w/Lever, Latch 9	153449	Spring, Compression 6
88780	Screw, 4-40 x 3/16 Hex 7	145346 150711	Lever, Reset 9 Washer, Flat 3	153817	Screw, 4-40 x 3/8 Hex 14
88857	Washer, Spring 6	151229	Washer, Flat 9	153839	Screw, 6-40 x 5/8 Hex 8
91742	Nut, Lock 11,12,13,14	151225	Stud 11,12,13,14	153841	Screw, 6-40 x 9/16 Hex 7
91904 92151	Washer, Flat 7	151346	Screw, 6-40 x 3/8 Fil 7	154346	Plate, Instruction 10,12, 13,14
92151	Connector, 3 Pt Plug 7 Washer, Flat 6	151411	Block, Terminal 11,12,13,14	154407	Latch 6,7
93001	Washer, Lock 7	151412	Insulator, Terminal Block	154409	Plate 11,14
93191	Screw, 4-40 x 5/16 Flat 14		11,12,13,14	155083	Lens, Red Indicator Light 6
93984	Washer, Lock 14	151416	Nut, 6-40 Hex 11,12,13,14	155547	Bracket, Left 11
101633	Washer, Flat 6,7	151534	Screw, 10-32 Shoulder 7	155548	Bracket, Right 11
103092	Connector, Cord 11,12,13,14	151540	Lampholder 7	158649	Screw, 4-40 Thumb 4
104463	Screw, 4-40 x 1/4 Hex 12,13	151549	Post 8	159373	Modification Kit 11
108355	Nut, 1/4-20 Hex 11	151555	Foot, Mounting 10,12,13,14	159734	Button 6,7
110743	Washer, Lock 3,7,14,15	151558	Nut, Speed 6	159919**	Table Assembly 10,11,15
110822	Screw, 10-32 x 13/16 Flat 13	151616	Screw, No. 2 Self-Tapping 10,	159941	Handle 6
			12,13,14	**Refe	r to page 1 for finish suffix

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Part	Description and	Part	Description and	Part	Description and
Number	Page Number	Number	Page Number	Number	Page Number
159943	Bracket, Window 6	162920	Chute, Chad 3	178708**	Bracket, Chad Box
159944	Window, Plastic 6	164102	Bracket, Window 7		Mounting 15
159945	Washer, Friction 6	164276**	Container, Chad 15	178711**	Chute, Chad 15
159946	Arm 6	164553	Shaft 12,13	178712**	Box, Chad 15
159948**	Cover w/Bracket 6	164561**	Tray 13	179120**	
159949**	Lid w/Hinge 6	164562	Slide, Left 13	179122**	Door w/Hinge 14
160664	Pin, Roll 6,7	164563	Slide, Right 13	179124	Plate, Larch Mounting 14
160974	Arm, Stop 4,5	164571**	Table Assembly 13	179125	Bracket, Mounting 14
161593	Cable Assembly 7	164763**	Plate, Mounting 3	179126	Post 14
161682	Clip, Cover 6	164875	Pad, Felt 3	179127	Chain, 15" Lg 14
161705	Strike, Fastener 14	173311	Bracket, Front Guide 15	179128	Stud 14
161708	Latch, Magnetic 12,13,14	173312	Bracket, Rear Guide	179861	Bracket 8
161747	Piate, Nut 14	173861	Cart 12	179862	Mount, Shock 8
161835	Plate, Clamp 7	174404	Guide, Tape 6	180798	Screw, 8-32 Self-Tapping 15
161934	Window, Plastic 7	174405	Handle 6	193645**	Plate, Cover 7
161935	Frame, Window 7	174406	Arm 6	193682**	Cover 2
161936	Link 7	174407	Lever 6	193683	Pad, Felt 2
161937	Latch w/Link 7	174408	Guide 6	193684**	Set of Parts 1,15
161939	Bracket, Guide 8	176089	Gasket, Window 4	194431**	Tray 13
161940	Window, Front 7	176096**	Cover w/Studs 4	194432**	Panel 13
161941	Window, Side 7	176097**	Lid 4	194433**	Table 13
161943	Plate 7	176098	Fastener 4	195132**	Cover 5
161944	Bracket, Hinge 7	176101	Guide, Tape 4	195133**	Lid, Cover 5
161945	Copyholder 7	176102	Bolt 4	195134	Clamp 5
161949	Mount Assembly, Vibration 8	176103	Window, Plastic 4	195135	Window, Plastic 5
161952**	Plate 8	176104	Window Assembly 4	195138	Guide, Tape 5
161961	Guide, Line 7	176105	Bracket 4	195181	Guide w/Adhesive, Tape 6
162189**	Cover w/Latch 6	176106	Bracket 4	195188	Chute, Chad 15
162191	Bracket, Guide 6	176107	Handle 4	195271	Modification Kit 6
162195	Arm, Slide 6	176108	Bracket 4	199277	Plate, Name 5
162590	Shaft 7	176110	Plate, Identification 4	305056	Plate, Identification 2,3,6,
162846	Modification Kit 6		Modification Kit 1,15		7,10,12,13,14
162916	Guide, Lower 2,3	178707	Bumper, Rubber 15	308478	Cord, Power 11
162917	Guide, Upper 2,3				

^{**}Refer to page 1 for finish suffix



28 APPARATUS CABINET (LBAC)

(RECEIVING, MONITORING & TRANSMITTING-MONITORING)

PARTS

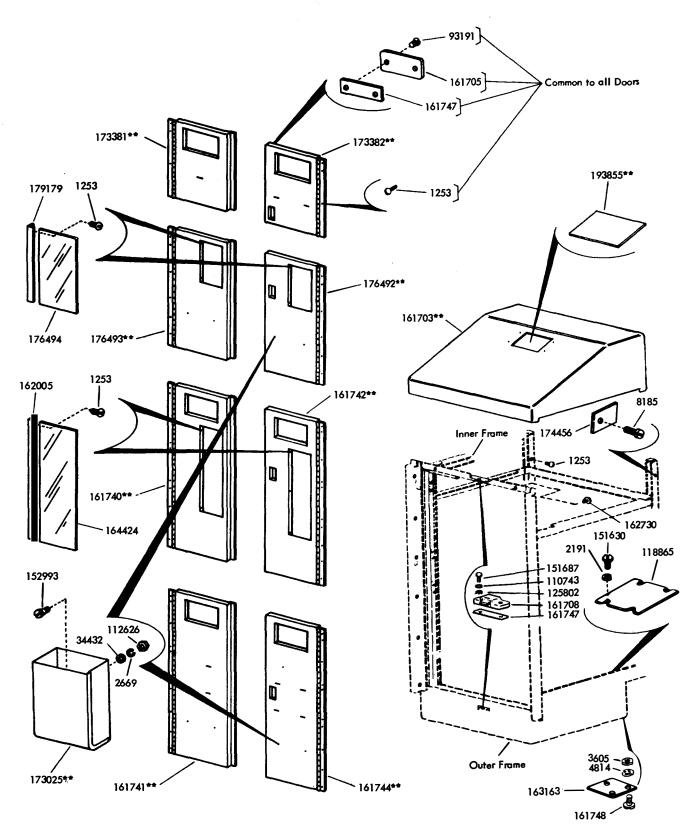
FIGURE	CONTENTS	PAGE
1	Front Doors and Dome	2
2	Control Panels	3
3	Control Panels	4
4	Control Panels	5
5	Control Plates	6
6	Control Plate	7
7	Control Plate Mounting Parts	8
8	Tape Winder Mounting Racks	9
9	Channel Assemblies	10
10	Channel Assemblies with Shelf	11
11	Terminal Blocks and Cable Assembly	12
12	161999** Modification Kit to Provide End Enclosures	13
13	Rear Doors and Latch Mechanism	14
	Numerical Index	15

PAINT FINISH COLOR CODE CHART

(For parts and assemblies requiring a paint finish)

	Finish Suffixes				Finish Suffixes				
Color	Wrinkle Finish	Smooth Finish	Textured Vinyl	Smooth Vinyl	Color	Wrinkle Finish	Smooth Finish	Textured Vinyl	Smooth Vinyl
Black Dark Brown Gray Green Charcoal Gray Dark Gray Light Gray Beige Gray Light Beige Moss Green Eye Rest Green Turquoise Aqua Blue	AA (37) AD (38) AB (40) AL	BB BK BZ EJ EN EA EV EK	GA (45) GB GC	HA HB (68) HC HD	Brussels Light Blue Medium Blue Cherry Red Pastel Yellow White Ivory Beige Rose Beige Rose Pink Dark Covert Gray Light Olive Gray		EC ES EF EG EH EM ET ER EU	GE	HE HF (46) HG

The double asterisk (**) denotes a painted part. Suffix to be applied following the part number. Number in parenthesis indicates Bell System code



**Refer to page 1 for finish suffix

FIGURE 1. FRONT DOORS AND DOME

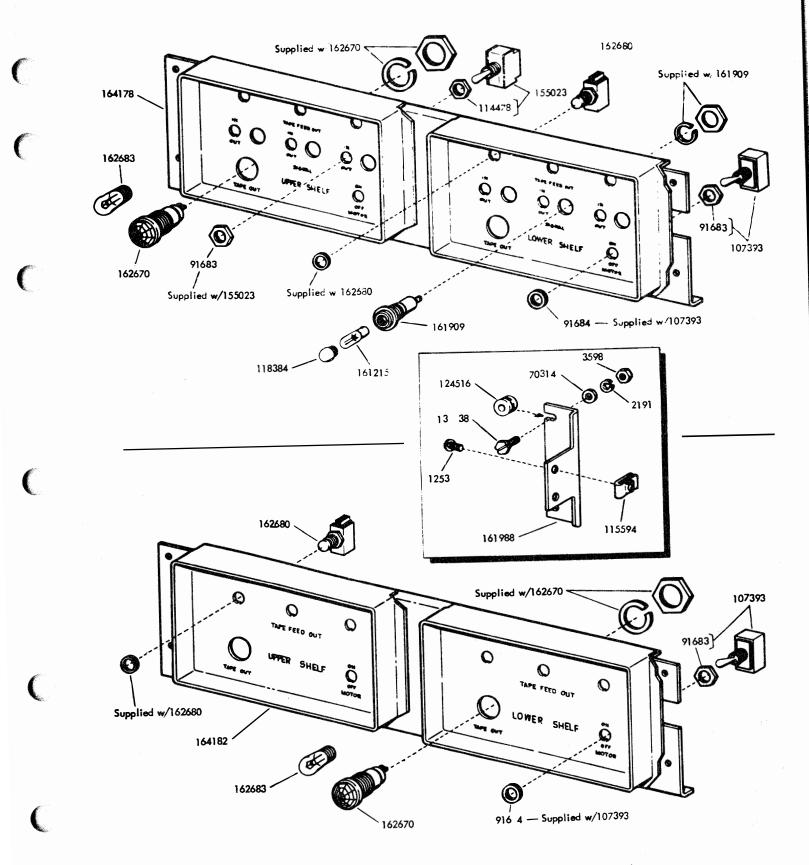


FIGURE 2. CONTROL PANELS

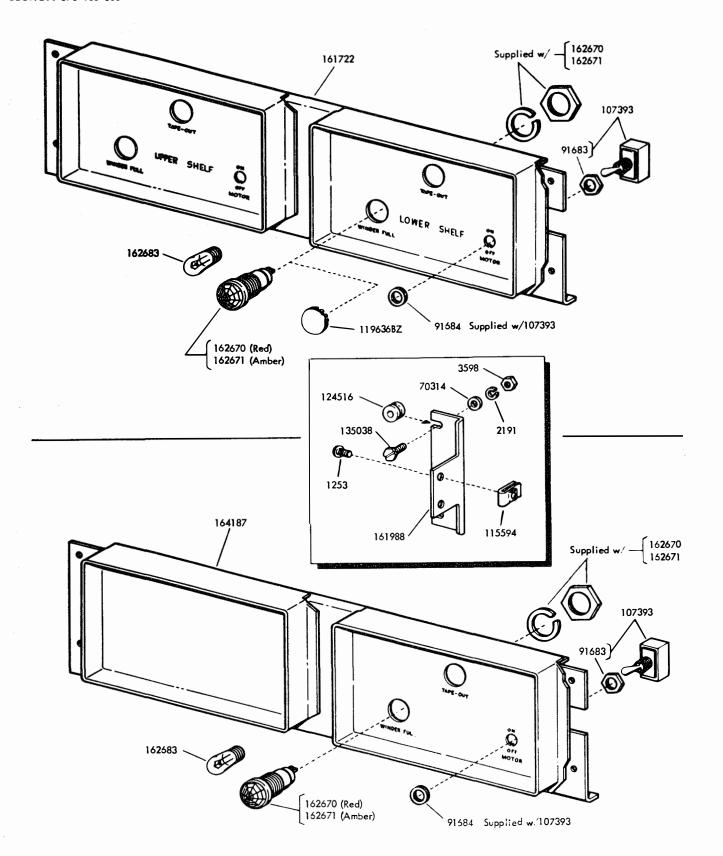


FIGURE 3. CONTROL PANELS

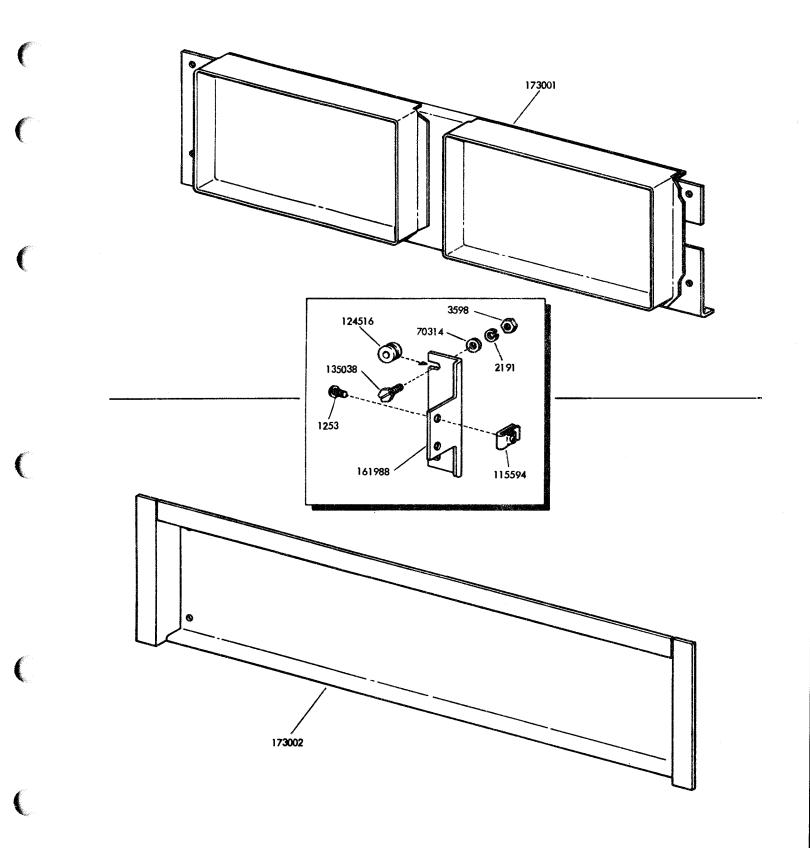


FIGURE 4. CONTROL PANELS

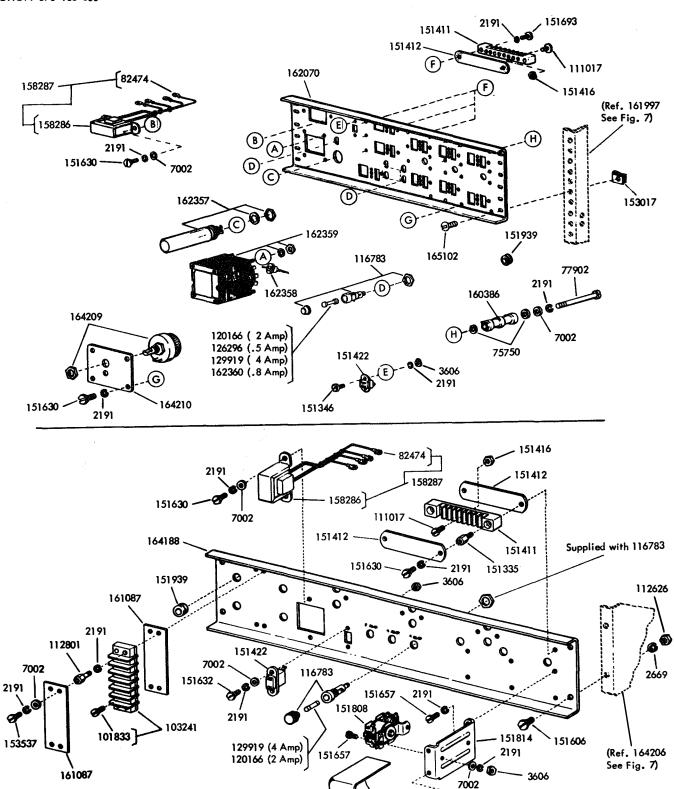
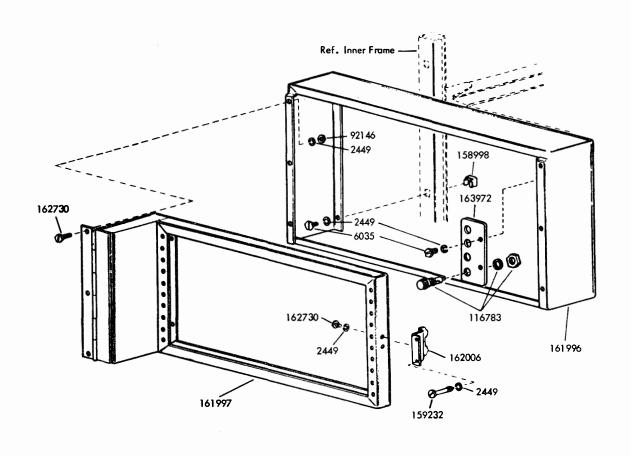


FIGURE 5. CONTROL PLATES

151657

158291



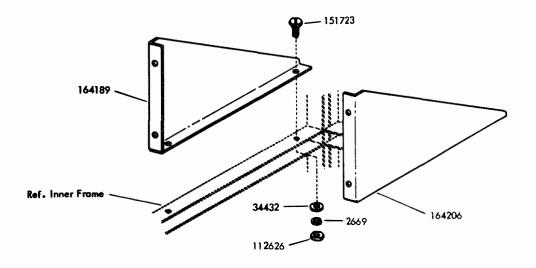


FIGURE 7. CONTROL PLATE MOUNTING PARTS

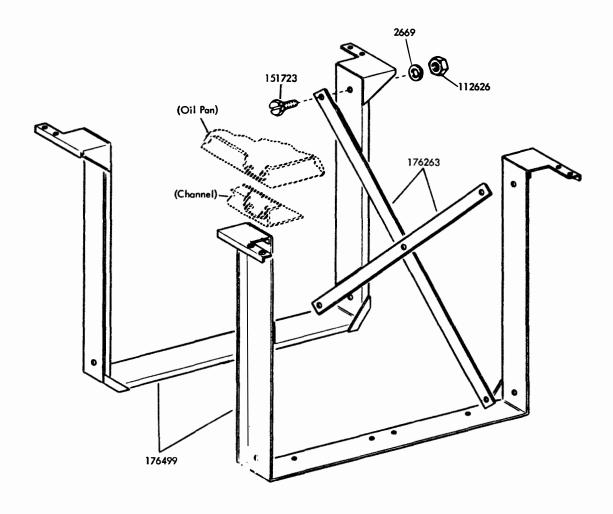


FIGURE 8. TAPE WINDER MOUNTING RACKS

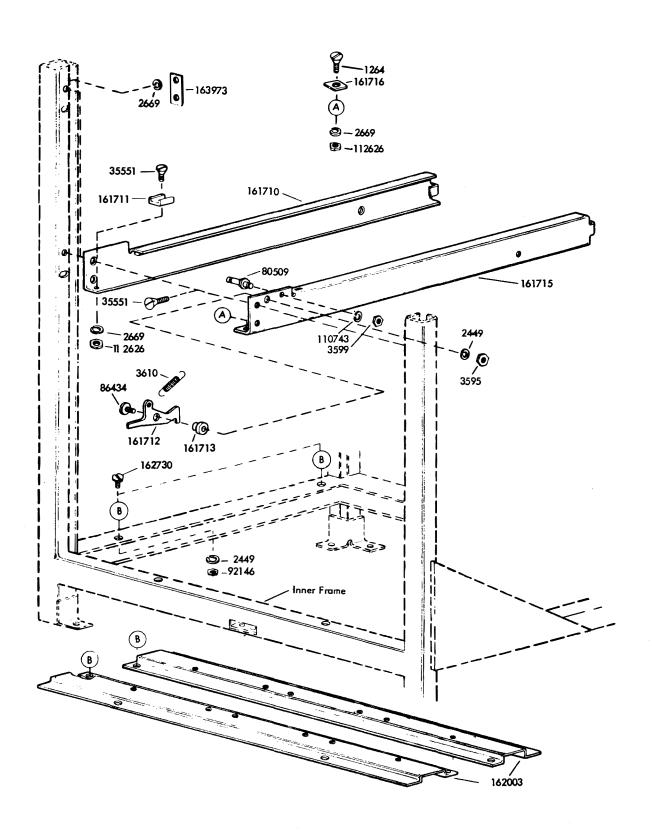


FIGURE 9. CHANNEL ASSEMBLIES

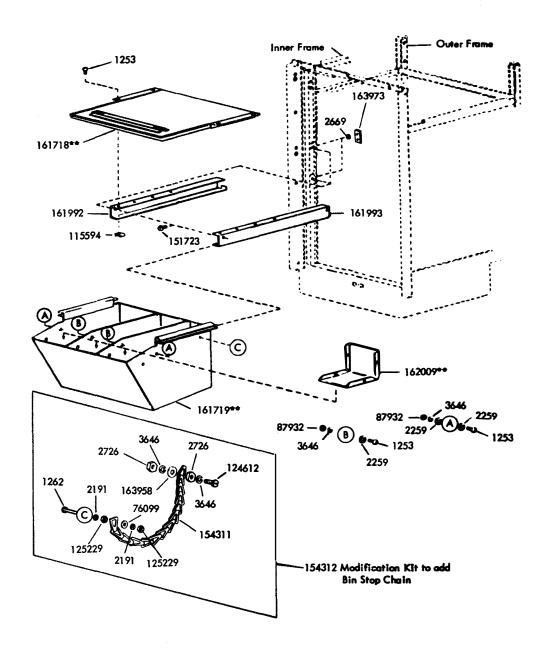
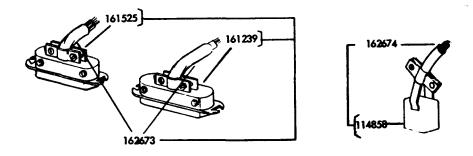


FIGURE 10. CHANNEL ASSEMBLIES WITH SHELF



Note: 161525 (14 point connector) mates with 161526 161239 (36 point connector) mates with 161238

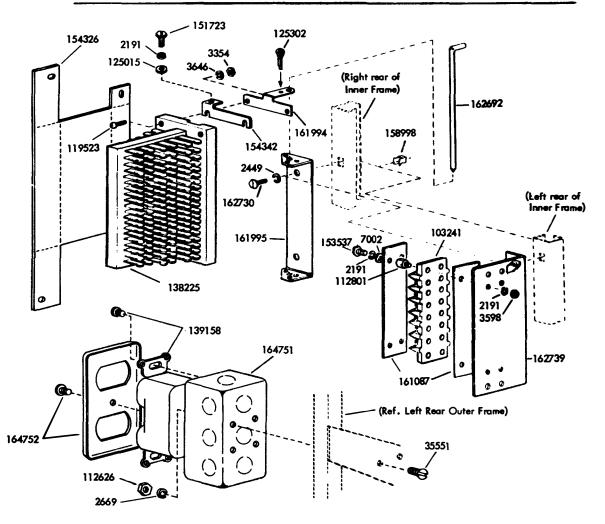
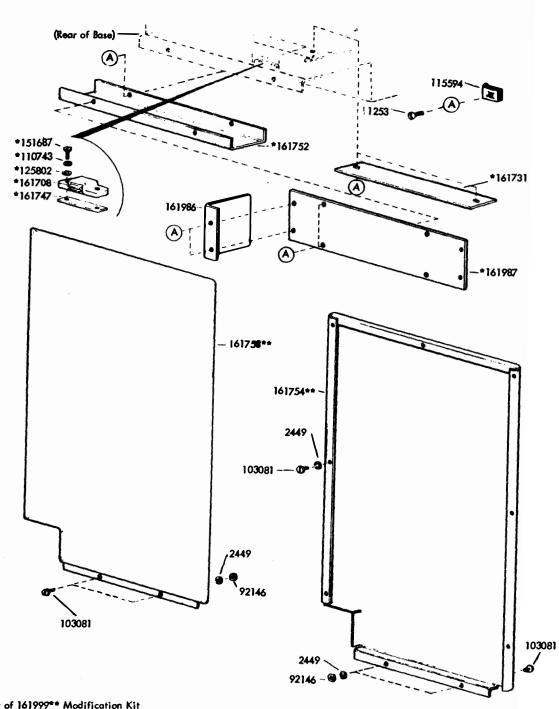


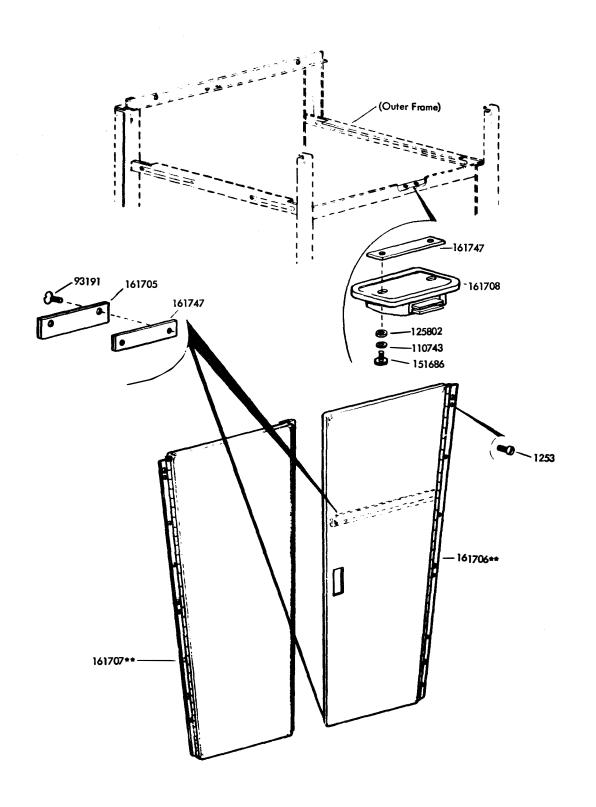
FIGURE 11. TERMINAL BLOCKS AND CABLE ASSEMBLY



*Not part of 161999** Modification Kit

**Refer to page 1 for finish suffix

FIGURE 12. 161999** MODIFICATION KIT TO PROVIDE END ENCLOSURES



**Refer to page 1 for finish suffix

FIGURE 13. REAR DOORS AND LATCH MECHANISM

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Part	Description and	Part	Description and	Part	Description and
Number	Page Number	Number	Page Number	Number	Page Numb e r
1028	Screw (4-40 x 1/4 Fil) 7	118865	Cover 2	161703**	
1253	Screw (8-32 x 3/8 Rd) 2, 3, 4,	119523	Screw (8-32 x 3/4 Rd) 12	161705 161706**	Strike, Fastener 2, 14
1262	5, 11, 13, 14 Screw (6-32 x 5/16 Rd) 11	119636** 120166	Plug, Button 4 Fuse (2 Amp) 6	161707**	Door, Right Rear 14 Door, Left Rear 14
1264	Screw (10-32 x 1/2 Flat) 10	121021	Screw (8-32 x 1/2 Hex) 11	161708	Latch, Magnetic 2, 13, 14
2191	Washer, Lock 2, 3, 4, 5, 6, 7,	124516	Grommet, Rubber 3, 4, 5	161710	Channel, Left 10
	11, 12	124612	Screw (8-32 x 1/2 Hex) 11	161711	Black, Guide 10
2259	Washer, Flat 11	125015	Washer, Flat 7, 12	161712	Latch, Lever 10
2449 2669	Washer, Lock 8, 10, 11, 12, 13 Washer, Lock 2, 6, 8, 9, 10, 11,	125229 125302	Nut (6-32 Hex) 11 Pin, Cotter 12	161713 161715	Bushing, Shoulder 10 Channel, Right 10
2007	12	125802	Washer, Flat 2, 13, 14	161716	Black, Support 10
2726	Nut (8-32 Hex) 11	126296	Fuse (.5 Amp) 6	161718**	
3354	Nut (8-32 Hex) 12	129098	Screw (6-40 x 11/32 Flat) 7		Bin, Tape 11
3595	Nut (1/4-32 Hex) 10	129919	Fuse (4 Amp) 6	161722	Panel, Control 4
3598 3599	Nut (6-40 Hex) 3, 4, 5, 7, 12 Nut (4-40 Hex) 10	135038 138191	Screw (6-40 x 9/16 Hex) 3, 4, 5 Screw (3-48 x 1" Rd) 7	161731	Plate, Cover 13 Door, Left 2
3605	Nut (5/16-18 Hex) 2	138225	Block, Terminal 12	161741**	
3606	Nut (6-40 Hex) 6	139158	Connector, Receptacle (Duplex)		Door, Right 2
3610	Spring 10		12	161744**	
3646	Washer, Lock 11, 12	151335	Stud 6, 7	161747	Plate, Nut 2, 13, 14
4814	Washer, Lock 2	151346	Screw (6-40 x 3/8 Fil) 6	161748 161752	Screw (5/16–18 x 5/8 Flat) 2 Channel, Duct 13
6035 6827	Screw (1/4-20 x 5/8 Hex) 8 Block 7	151411 151412	Block, Terminal 6, 7 Insulator (1-9) 6, 7	161753**	
7002	Washer, Flat 6, 7, 12	151416	Nut (6-40 Hex) 6, 7	161754**	Panel, Right Side 13
8185	Screw (1/4-20 x 3/4 Fil) 2	151422	Connector, Receptacle (2 Pt) 6	161909	Socket, Lamp 3
34432	Washer, Flat 2, 8	151606	Screw (10-32 x 1/4 Hex) 6	161986	Cover, Duct 13
35551	Screw (10-32 x 3/8 Flat) 10, 12	151626	Terminal 7	161987 161988	Plate, Duct 13
70314 75231	Washer, Flat 3, 4, 5 Bushing, Insulating 7	151630 151632	Screw (6-40 x 1/4 Hex) 2, 6, 7 Screw (6-40 x 3/8 Hex) 6	161992	Bracket, Mounting 3, 4, 5 Channel, Left Mounting 11
75750	Washer, Insulating 6, 7	151657	Screw (6-40 x 1/4 Fil) 6, 7	161993	Channel, Right Mounting 11
76099	Washer, Flat 11	151686	Screw (4-40 x 3/8 Fil) 14	161994	Bracket, Terminal Block 12
77902	Screw (6-40 x 2-3/8 Rd) 6, 7	151687	Screw (4-40 x 7/16 Fil) 2, 13	161995	Bracket, Terminal Black 12
79523	Screw (2-56 x 25/32 Fil) 7	151693	Screw (6-40 x 9/16 Fil) 6	161996 161997	Frame, Mounting 8
80509 81258	Post, Spring 10 Screw (6–40 x 5/8 Flat) 7	151723	Screw (10-32 x 3/8 Hex) 8, 9, 11, 12	161999**	Frame, Mounting Rack 7, 8 Modification Kit 13
82474	Terminal 6	151808	Relay 6	162003	Channel, Front 10
82516	Spring, Retaining 7	151814	Bracket, Relay Mounting 6	162005	Bracket, Clip 2
82988	Screw (6-40 x 2-1/2 Rd) 7	151819	Jumper (3" Black) 7	162006	Bracket 8
86434	Screw (1/4-32 x 3/4 Fil) 10	151939	Grommet, Rubber 6	162009** 162070	Divider, Tape Bin 11 Plate, Mounting 6
87932 89548	Nut (8-32 Hex) 11 Spring, Contact 7	152109 152124	Filter 7 Spacer 7	162357	Capacitor (500 MFD) 6
91683	Nut (15/32-32 Hex) 3, 4	152993	Screw, Shoulder (10-32) 2	162358	Diode 6
91684	Nut (15/32-32 Ring) 3, 4	153017	Nut, Speed 6, 7	162359	Transfarmer, Power 6
92146	Nut (1/4-20 Hex) 8, 10, 13	153452	Terminal 7	162360	Fuse (.8 Amp) 6
93191	Screw (4-40 x 5/16 Flat) 2, 14	153463	Block, Terminal 7	162670 162671	Light, Red Pilot 3, 4 Light, Amber Pilot 4
99802 99803	Plate 7 Insulator (.094") 7	153464 153480	Block Assembly, Terminal 7 Resistor (6750 Ohm) 7	162672	Plate, Relay 7
99804	Insulator (.062") 7	153481	Resistor (5800 Ohm) 7	162673	Cable Assembly 12
99805	Plunger 7	153537	Screw (6-40 x 9/32 Hex) 6, 12	162674	Cable Assembly 12
99806	Bracket 7	154311	Chain, Bin Stop (40 Links) 11	162678	Contact Assembly, Line Shunt 7
99807	Spring, Contact 7	154312	Modification Kit 11	162680 162683	Switch, Push 3
99809	Spring, Contact 7	154326 154342	Cover, Insulating 12 Bracket, Insulating Cover 12	162692	Lamp, Clean Incandescent 3, 4 Pin, Hinge 12
101833	Screw (8-32 x 5/16 Fil) 6 Screw (1/4-20 x 1/2 Fil) 13	155023	Switch, Toggle (DP-DT) 3	162730	Screw $(1/4-20 \times 7/16 \text{ Hex}) 2$,
103081		158286	Transformer 6		8, 10, 12
103241	Block, Terminal 6, 12	158287	Transformer Assembly 6	162739	Bracket, Terminal Black 12
107393	Switch, Toggle (SP-ST) 3, 4	158291	Cover, Relay 6	162865 163163	Spacer 7 Pad 2
110743 111017	Washer, Lock 2, 10, 13, 14 Screw (6–40 x 5/16 Fil) 6, 7	158998 159232	Retainer, Speed Nut 8, 12 Screw, Captive (1/4–20) 8	163279	Bracket, Mounting 7
112626	Nut (10-32 Hex) 2, 6, 8, 9,	160284	Resistor (5,500 Ohm) 7	163306	Cable 7
	10, 12	160386	Resistor (1,000 Ohm) 6	163958	Washer, Flat 11
112801	Stud 6, 12	161087	Insulator (1-6) 6, 12	163972	Strip, Fuse Mounting 8
114478	Nut (15/32-32 Hex) 3	161215	Lamp, Glow 3	163973 164178	Plate, Nut 10, 11 Panel, Control 3
114858 115594	Connector, Receptacle (6 Pt) 12 Nut, Speed 3, 4, 5, 11, 13	161238 161239	Connector, Receptacle (36 Pt) 12 Connector, Plug (36.Pt) 12	164182	Panel, Control 3
116783	Holder, Fuse 6, 8	161525	Connector, Plug (14 Pt) 12	164187	Panel, Control 4
118384	Lens, Clear Indicator Light 3	161526	Connector, Receptacle (14 Pt) 12	164188	Plate, Cantrol 6

NUMERICAL INDEX (Continued)

Part	Description and	Part	Description and Page Number	Part	Description and
Number	Page Number	Number		Number	Page Number
164189 164206 164209 164210 164424 164751 164752	Bracket, Left 8 Bracket, Right 6, 8 Rheostat (350 Ohm) 6 Plate, Mounting 6 Window 2 Box, Junction 12 Plate, Cover 12		Screw (12-24 x 3/8 Rd) 6, 7 Panel, Blank Control 5 Panel 5 Bin, Tape 2 Door, Left 2 Door, Right 2 Plate, Nut 2 Strip 9	176493** 176494 176499 178363 179179	Door, Right 2 Door, Left 2 Window 2 Bracket, Mounting 9 Post 7 Bracket 2 Cover W/Clips 2